ORDER NO. TSD-7909-357

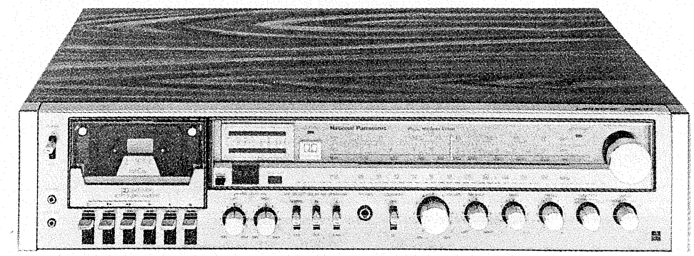
Service Manual

Campact Stereo

SG-3800

FM/MW/SW1/SW2/FM STEREO RADIO WITH CASSETTE TAPE DECK

DOLBY SYSTEM®

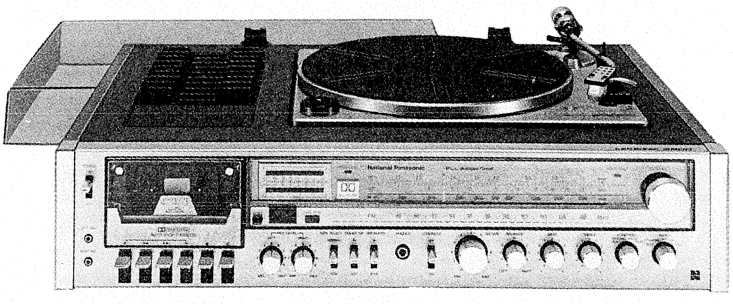


Campact Stereo

SG-3800P

FM/MW/SW1/SW2/FM STEREO RADIO WITH CASSETTE TAPE DECK AND RECORD PLAYER

DOLBY SYSTEM®

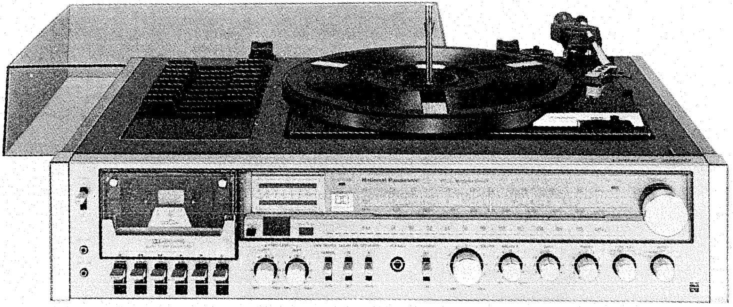


Campact Stereo

SG-3800C

FM/MW/SW1/SW2/FM STEREO RADIO WITH CASSETTE TAPE DECK AND RECORD CHANGER

DOLBY SYSTEM®



* "Dolby" and the double-D symbol are trade marks of Dolby Laboratories.
* Noise reduction system manufactured under license from Dolby Laboratories.

National Panasonic

Matsushita Electric Trading Co., Ltd.
P. O. Box 288, Central Osaka, Japan

SPECIFICATIONS

AMPLIFIER SECTION

Power Output	PMPO 120 W (60 W x 2) MPO 60 W (30 W x 2) RMS 50 W (25 W x 2) One Channel Driven (THD 5%, 8 Ω)
Frequency Response	40 Hz ~ 30 kHz –3 dB
Input Sensitivity and Impedance:	
Phono (SG-3800)	2.5 mV 47 kΩ (Magnetic) 300 mV 1 MΩ (Ceramic)
Aux	300 mV, 50 kΩ
Mic	1 mV, 3 kΩ
Tone Controls:	
Bass	±10 dB at 100 Hz
Treble	±10 dB at 10 kHz
Loudness Control	+7 dB at 100 Hz +3 dB at 10 kHz (Volume at –30 dB position)

FM TUNER SECTION

Frequency Range	87.5 MHz ~ 108 MHz
Intermediate Frequency (IF)	10.7 MHz
Sensitivity	3 μV (S/N 30 dB Mod. 22.5 kHz)
Harmonic Distortion:	
Mono	0.3% (at 1 kHz Mod. 30%)
Stereo	0.5% (at 1 kHz Mod. 30%)
Signal/Noise Ratio	60 dB (at 1 kHz 60 dB Mod. 30%)
Stereo Separation	35 dB (at 1 kHz 60 dB Mod. 30%)
Image Rejection	38 dB (98 MHz)

AM TUNER SECTION

Frequency Range	MW: 525 ~ 1605 kHz (571 ~ 187 m) SW1: 2.3 ~ 7 MHz (130 ~ 42.9 m) SW2: 7 ~ 22 MHz (42.9 ~ 13.6 m)
Intermediate Frequency (IF)	455 kHz
Sensitivity	MW: 100 μV/m (1 MHz) SW1: 70 μV/m (5 MHz) SW2: 5 μV (16 MHz)
Image Rejection	MW: 50 dB (1 MHz) SW1: 30 dB (5 MHz) SW2: 10 dB (16 MHz)

TAPE DECK SECTION

Deck System	Auto Stop Cassette System with Pause Control
Track System	4 Track, 2 Channel
Recording System	AC Bias 47 kHz
Erasing System	AC Erase 47 kHz
Tape Speed	4.75 cm/sec. (1-7/8 i.p.s.)
Frequency Response	30 Hz ~ 13 kHz (Normal) 30 Hz ~ 14 kHz (CrO2)
Wow and Flutter	0.2% (WRMS)

PLAYER SECTION (SG-3800P)

Player System	Belt-Drive, Automatic Return
Turntable	28 cm (11")
Turntable Speeds	33-1/3 and 45 r.p.m. (2-Speed)
Photo Motor	DC Motor
Stylus	Diamond
Cartridge	Moving Magnet

CHANGER SECTION (SG-3800C)

Player System	Belt-Drive, Full-Auto
Turntable	30 cm (12")
Turntable Speeds	33-1/3 and 45 r.p.m. (2-Speed)
Phono Motor	DC Motor
Stylus	Diamond
Cartridge	Moving Magnet

POWER SUPPLY	AC 100 ~ 115 V, 115 ~ 130 V, 200 ~ 225 V, 225 ~ 250 V, 50/60 Hz
POWER CONSUMPTION	120W

DIMENSIONS (W x H x D)

Center Unit:	
SG-3800	590 mm x 137 mm x 403 mm (23-1/4") x (5-1/2") x (15-7/8")
SG-3800P	590 mm x 205 mm x 430 mm (23-1/4") x (8-1/16") x (16-15/16")
SG-3800C	590 mm x 247 mm x 430 mm (23-1/4") x (9-3/4") x (16-15/16")

WEIGHT

Center Unit:	
SG-3800	7.8 kg (17 lbs. 5 oz.)
SG-3800P	10.2 kg (22 lbs. 11 oz.)
SG-3800C	11.9 kg (26 lbs. 7 oz.)

SPEAKER SYSTEM (SB-390) (OPTIONAL)

Type	3-Way, 3-Speaker System
Speaker	Woofer: 25 cm (10") Mid Range: 10 cm (4") Tweeter 6.5 cm (2-1/2")
Input Impedance	8 Ω
Dimensions (W x H x D)	343 mm x 556 mm x 225 mm (13-1/2") x (21-7/8") x (8-7/8")
Weight	6.0 kg (13 lbs. 4 oz.)

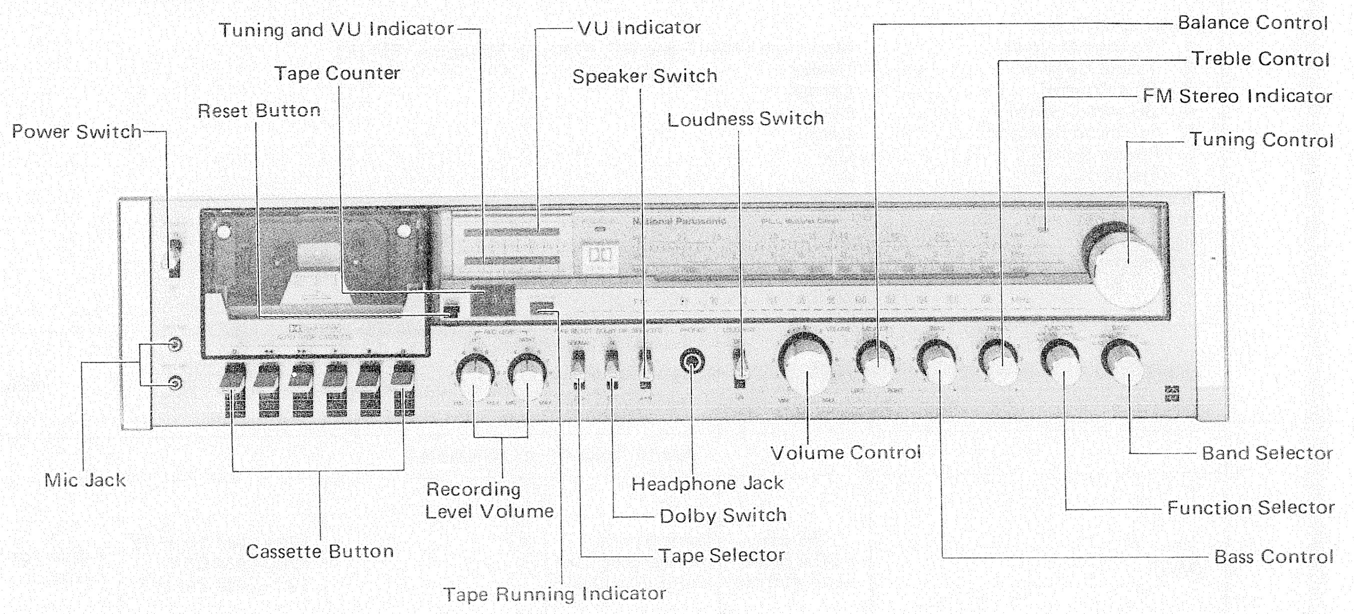
PLAYER SYSTEM (SF-602, SF-603) (OPTIONAL)

Player System	Belt-Drive, Automatic Return
Turntable	28 cm (11")
Turntable Speeds	33-1/3 and 45 r.p.m. (2-Speed)
Phono Motor	DC Electronic Governor Motor
Stylus	Sapphire (SF-602) Diamond (SF-603)
Cartridge	Ceramic (SF-602) Moving Magnet (SF-603)
Dimensions (W x H x D)	500 mm x 135 mm x 380 mm (19-11/16") x (5-5/16") x (14-31/32")
Weight:	
SF-602	4.4 kg (9 lbs. 12 oz.)
SF-603	4.0 kg (10 lbs. 4 oz.)

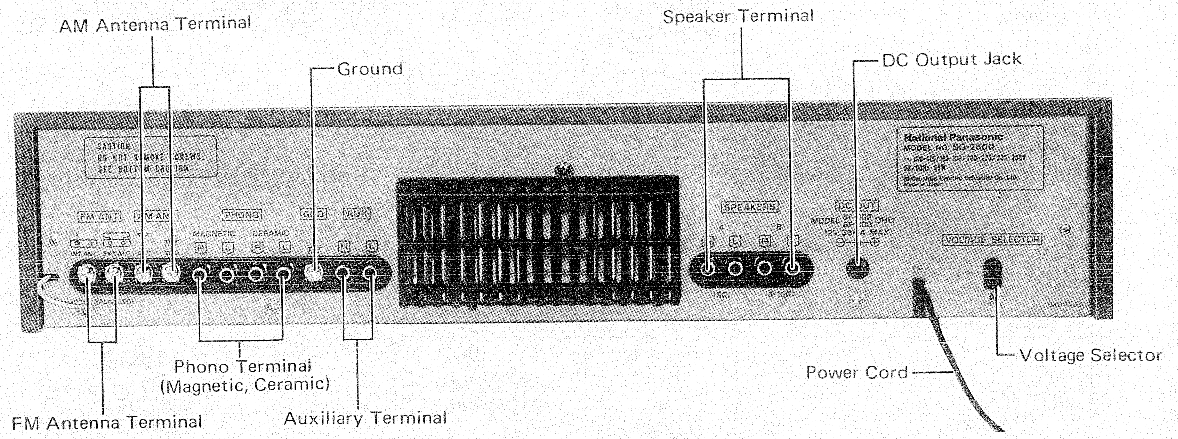
* Specifications are subject to change without notice for further improvement.

LOCATION OF CONTROLS

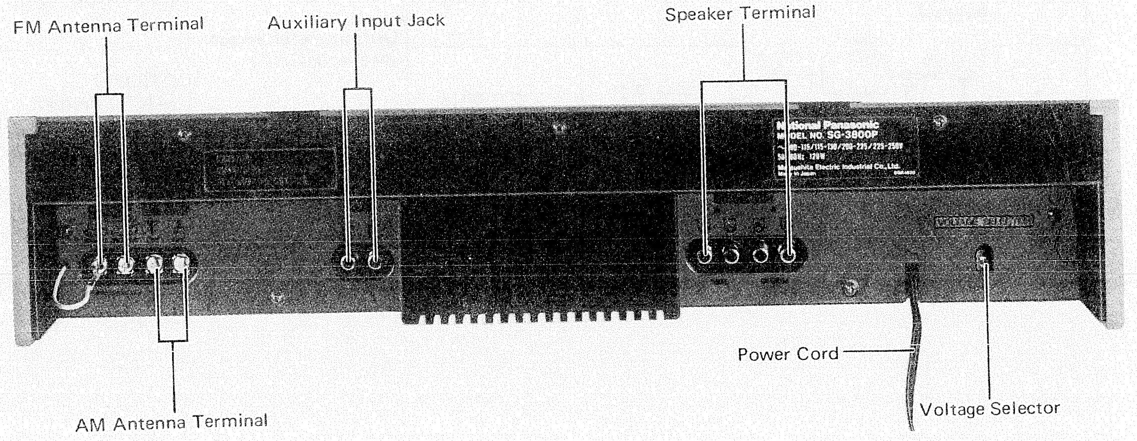
■SG-3800/SG-3800P/SG-3800C


Tuning and VU Indicator
VU Indicator
Balance Control
Treble Control
Tape Counter
Speaker Switch
FM Stereo Indicator
Reset Button
Loudness Switch
Power Switch
Tuning Control
Mic Jack
Recording Level Volume
Headphone Jack
Volume Control
Band Selector
Dolby Switch
Function Selector
Cassette Button
Tape Selector
Bass Control
Tape Running Indicator

■SG-3800

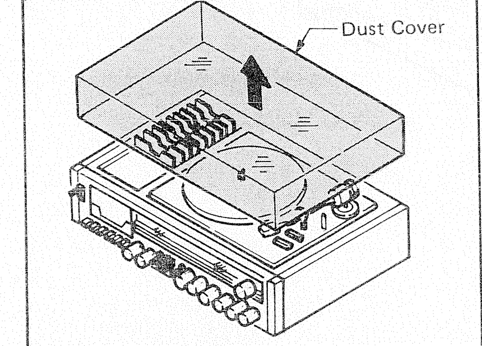

AM Antenna Terminal
Speaker Terminal
Ground
DC Output Jack
Phono Terminal (Magnetic, Ceramic)
Power Cord
Voltage Selector
FM Antenna Terminal
Auxiliary Terminal

■SG-3800P/SG-3800C

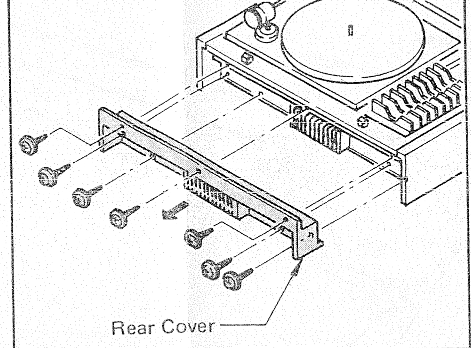

FM Antenna Terminal
Auxiliary Input Jack
Speaker Terminal
Power Cord
Voltage Selector
AM Antenna Terminal

DISASSEMBLY INSTRUCTIONS

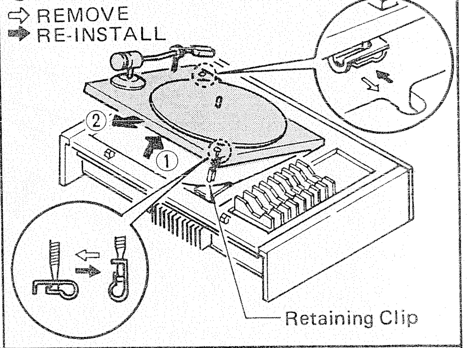
❶ Remove Dust Cover



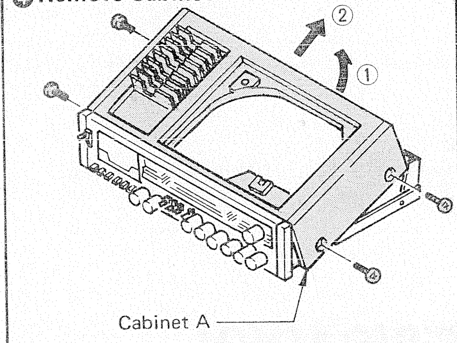
❷ Remove Rear Cover



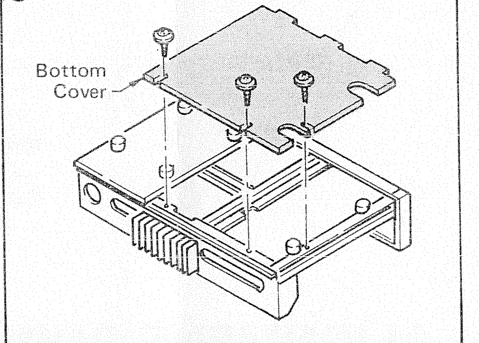
❸ Remove Record Player


⇨ REMOVE
➡ RE-INSTALL
②
①
Retaining Clip

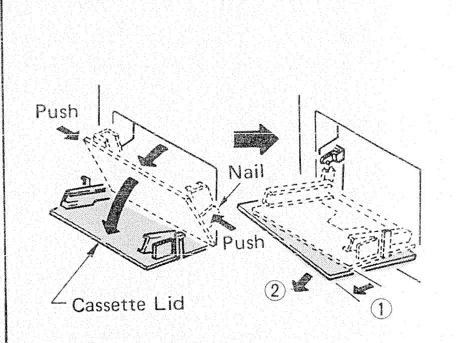
❹ Remove Cabinet


②
①
Cabinet A

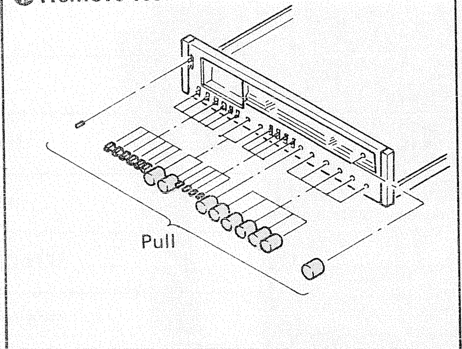
❺ Remove Bottom Cover


Bottom Cover

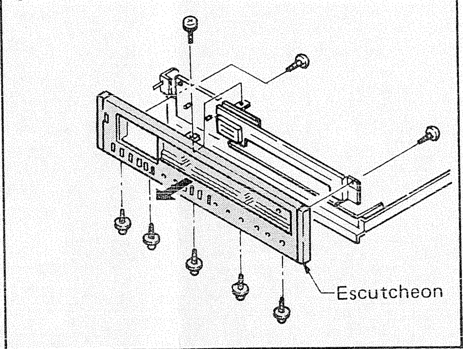
❻ Remove Cassette Lid


Push
Nail
Push
Cassette Lid
②
①

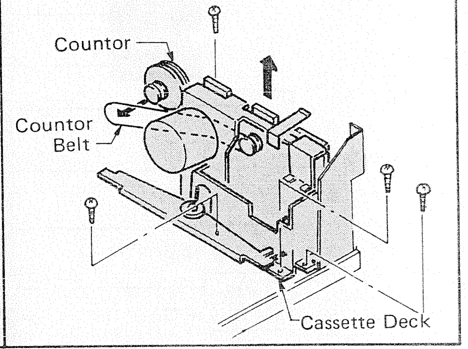
❼ Remove Konbs



❽ Remove Escutcheon


Escutcheon

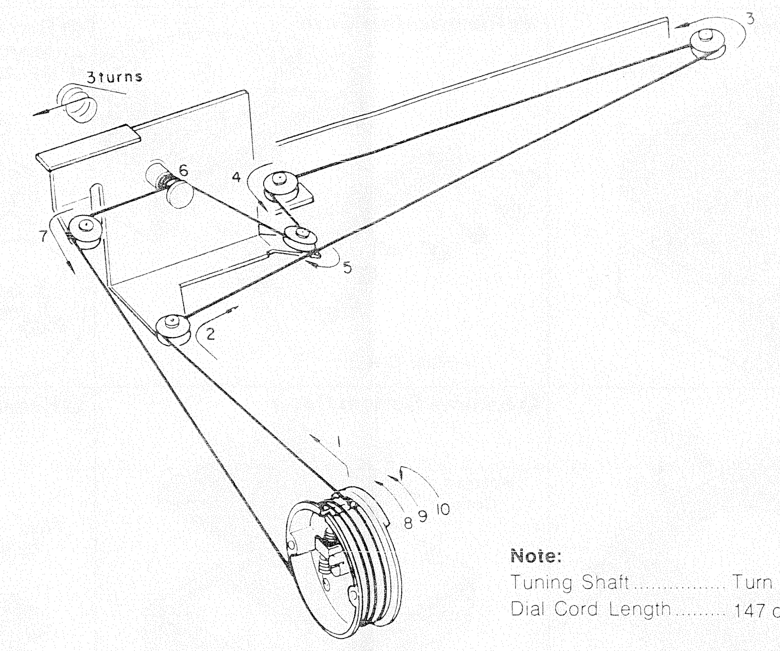
❾ Remove Cassette Deck


Countor
Countor Belt
Cassette Deck

[SG-3800]
- To Replace Parts on P. C. Board . . . . Refer to❹, ❺.
- To Remove Escutcheon . . . . Refer to❹~❽.
- To Remove Cassette Deck . . . . Refer to❹~❾.

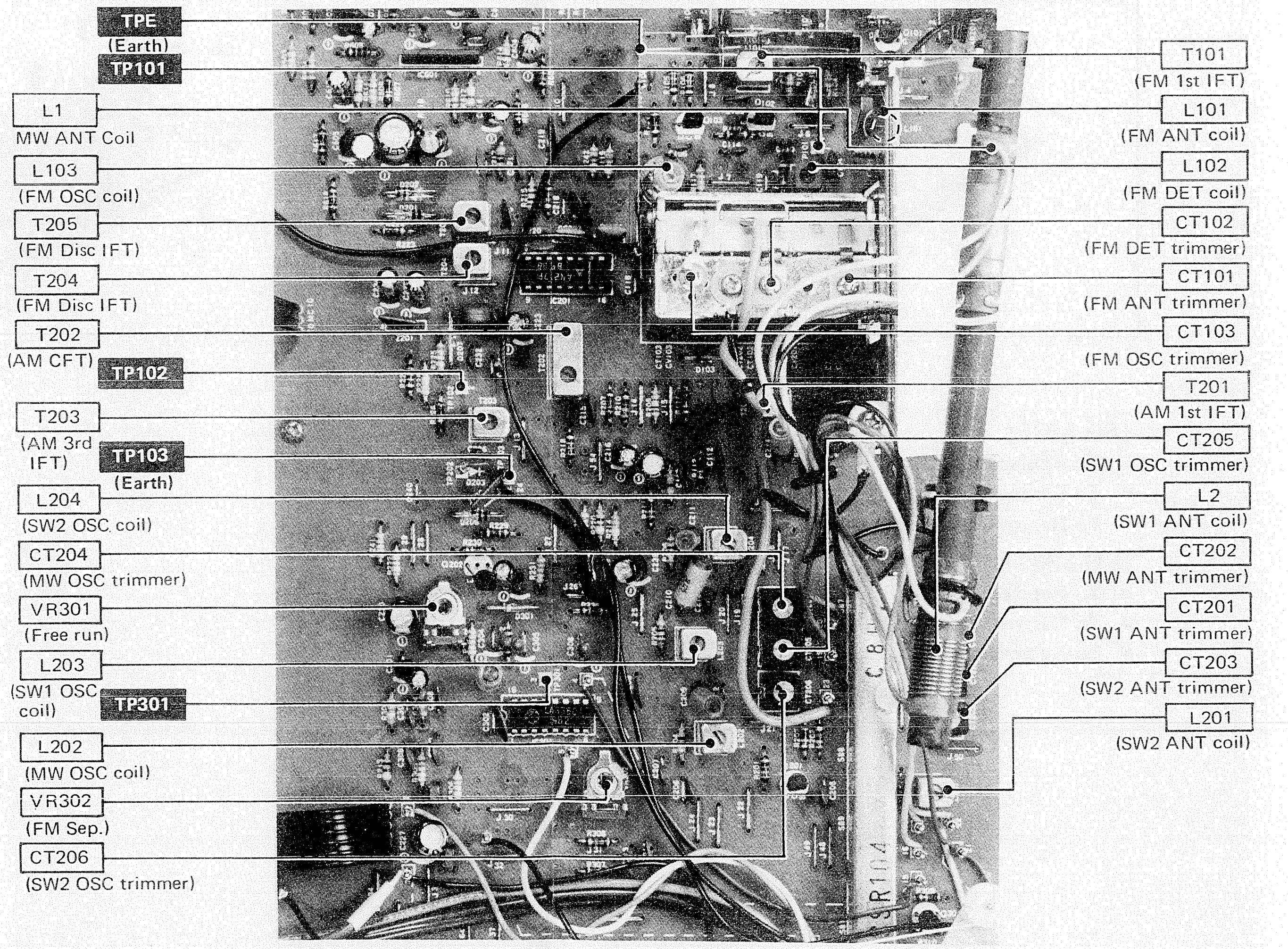
[SG-3800P/SG-3800C]
- To Replace Parts on P. C. Baord . . . . Refer to❶~❺.
- To Remove Escutcheon . . . . Refer to❶~❽.
- To Remove Cassette Deck . . . . Refer to❶~❾.

DIAL CORD STRINGING GUIDE


3turns
1
2
3
4
5
6
7
8
9
10

Note:
Tuning Shaft............... Turn to Full Clockwise.
Dial Cord Length......... 147 cm

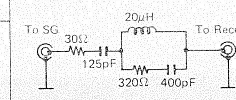
ALIGNMENT POINTS(RADIO)


TPE
(Earth)
TP101
L1
MW ANT Coil
L103
(FM OSC coil)
T205
(FM Disc IFT)
T204
(FM Disc IFT)
T202
(AM CFT)
TP102
T203
(AM 3rd IFT)
TP103
(Earth)
L204
(SW2 OSC coil)
CT204
(MW OSC trimmer)
VR301
(Free run)
L203
(SW1 OSC coil)
TP301
L202
(MW OSC coil)
VR302
(FM Sep.)
CT206
(SW2 OSC trimmer)
T101
(FM 1st IFT)
L101
(FM ANT coil)
L102
(FM DET coil)
CT102
(FM DET trimmer)
CT101
(FM ANT trimmer)
CT103
(FM OSC trimmer)
T201
(AM 1st IFT)
CT205
(SW1 OSC trimmer)
L2
(SW1 ANT coil)
CT202
(MW ANT trimmer)
CT201
(SW1 ANT trimmer)
CT203
(SW2 ANT trimmer)
L201
(SW2 ANT coil)

ALIGNMENT INSTRUCTIONS

■ AM IF and RF Alignment

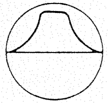
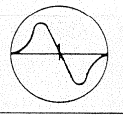
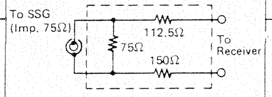
Control Positions:
1. Volume Control. . . . . Maximum (AM-IF and RF, FM-RF); Minimum (FM-IF)
2. Treble Control. . . . . Center
3. Bass Control . . . . Center
4. Balance Control . . . . Center
5. Function Selector. . . . . Radio
6. Power Switch . . . . ON
7. Speaker Switch . . . . A
8. Loudness. . . . . OFF
9. Band Selector . . . . MW, SW1, SW2, FM AUTO, FM MONO
10. Output of signal generator should be no higher than necessary to obtain output reading.
11. Make certain that speaker system is connected to the receiver when aligning. (or use 8 Ω dummy load resistors).

STEP	SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (VTVM or SCOPE)	ADJUST	REMARKS
	CONNECTION	FREQUENCY				
AM-IF AND RF ALIGNMENT						
1 (MW)	Fashion loop of several turns of wire and radiate signal into loop of receiver.	455 kHz 30% Mod. with 400 Hz	Point of non-interference (on/about 600 kHz)	Output meter across speaker jack (L)	T201 (AM 1st IFT) T202 (AM CFT) T203 (AM 3rd IFT)	Adjust for maximum output.
2 (MW)		550 kHz 30% Mod. with 400 Hz	550 kHz (19.1 mm)		L1 (ANT Coil) L202 (OSC Coil)	Adjust for maximum output by sliding coil L1 along ferrite core. **• Refer to Note.**
3 (MW)		1500 kHz 30% Mod. with 400 Hz	1500 kHz (158.4 mm)		CT202 (ANT Trimmer) CT204 (OSC Trimmer)	Adjust for maximum output. Repeat steps (2) and (3).
4 (SW1)		2.3 MHz 30% Mod. with 400 Hz	2.3 MHz (6.2 mm)	Output meter across speaker jack (L)	L2 (ANT Coil) L203 (OSC Coil)	Adjust for maximum output by sliding coil L2 along ferrite core. **• Refer to Note.**
5 (SW1)		7.0 MHz 30% Mod. with 400 Hz	7.0 MHz (168.8 mm)		CT201 (ANT Trimmer) CT205 (OSC Trimmer)	Adjust for maximum Output. Repeat steps (4) and (5).
6 (SW2)	Connect to EXT antenna and Earth through SW Dummy antenna. (Refer to Fig. shown below.)  To SG 30Ω 125pF 20μH 320Ω 400pF To Receiver **DUMMY ANTENNA**		7.0 MHz (6.4 mm)	Output meter across speaker jack (L)	L201 (ANT Coil) L204 (OSC Coil)	Adjust for maximum output.
7 (SW2)		22.0 MHz 30% Mod. with 400 Hz	22.0 MHz (168.5 mm)		CT203 (ANT Trimmer) CT206 (OSC Trimmer)	Adjust for maximum output. Repeat steps (6) and (7).

Note: Cement antenna coil with wax after completing alignment.

ALIGNMENT INSTRUCTIONS

■ FM IF and RF Alignment

STEP	SIGNAL GENERATOR SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (VTVM or SCOPE)	ADJUST	REMARKS
	CONNECTION	FREQUENCY				
FM-IF AND DETECTOR ALIGNMENT						
1	High side through 1 pF between point TP101 and TPE (Earth).	10.7 MHz (400 kHz SWP.)	Point of non-interference (on/about 98 MHz)	Connect vert. amp. input of scope between point TP102 and TP103 (Earth).	T101 (FM 1st IFT) T204 (FM Disc. IFT) • **Refer to Note.**	Adjust T101 for maximum amplitude and symmetrical curve. 
2					T205 (FM Disc. IFT)	Adjust for maximum amplitude and proper linearity between about ±100 kHz markers. 
Note: Before aligning step 1, turn the cores of T205 fully counterclockwise.						
FM-RF ALIGNMENT						
1	Connect to EXT. FM antenna terminal through Dummey antenna. Common to chassis.	90 MHz 30% Mod. with 400 Hz	90 MHz (22.5 mm)	Output meter across speaker jack (L) (Imp. 8Ω)	L101 (FM ANT Coil) L102 (FM DET Coil) L103 (FM OSC Coil)	Adjust for maximum output.
2	 To SSG (Imp. 75Ω) 75Ω 112.5Ω 150Ω To Receiver DUMMY ANTENNA	106 MHz 30% Mod. with 400 Hz	106 MHz (149.1 mm)		CT101 (FM ANT Trimmer) CT102 (FM DET Trimmer) CT103 (FM OSC Trimmer)	Adjust for maximum output. Repeat steps (1) and (2).
Note: As three output readings will be present, adjustments must be made at center frequency.						

■ FM Stereo Alignment

FREE RUNNING ALIGNMENT

Control Positions:

Volume Control	Audible level of speaker sound
Treble Control	MIN
Bass Control	Center
Band Selector	FM AUTO
Balance Control	Center

EQUIPMENT CONNECTION	ADJUST	REMARKS
Connect frequency counter to TP301 and TP103 (Earth) at 98 MHz 30% modulation 60 dB input.	VR301	Adjust VR301 for 19 kHz ± 100 Hz on frequency counter reading.

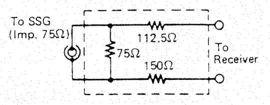
SEPARATION ALIGNMENT

Control Positions:

1. Stereo Modulator: Connect Stereo Modulator to EXT. Mod. terminal of signal generator.
2. Signal Generator:

Modulation Rate of 19 kHz Pilot Signal	10%
Modulation Rate of Right and Left Signal	27%
Output Level	60 dB

3. Tuner (Balance Control): Adjust balance control so that output level from both channels becomes equal.

EQUIPMENT CONNECTION			ADJUST	REMARKS
SIGNAL GENERATOR	VTVM	OSCILLOSCOPE		
Connect to EXT. FM antenna terminal through dummy antenna.  To SSG (Imp. 75Ω) 75Ω 112.5Ω 150Ω To Receiver DUMMY ANTENNA	Connect across speaker jack. (Imp. 8 Ω)	Connect vertical amp. input of scope to terminals of VTVM.	VR302 (Separation Control)	Adjust VR302 for minimum indication of VTVM from the left side output when the right side of stereo modulator is modulated. Adjust VR302 in the same way for the right side. Adjust for best balance between "L to R" and "R to L" separation.

Note: When aligning separation, disconnect frequency counter.

ALIGNMENT INSTRUCTIONS
CASSETTE TAPE DECK

■ Tape Deck Alignment

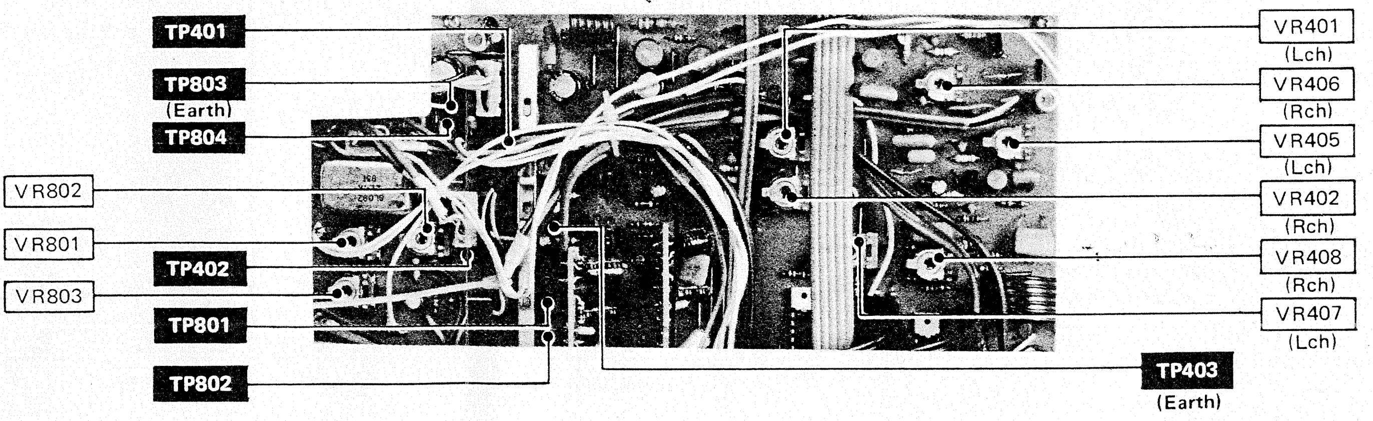
Control Positions:
1. Tape Deck . . . . Recording Condition.
2. Dolby Switch . . . . OUT

STEP	ALIGNMENT ITEM	VTVM CONNECTION		TAPE SELECTOR	ADJUST	REMARKS
		Positive	Negative			
1	Recording Bias	TP401 (L-Channel)	TP403	NORMAL	VR803 VR802	• Adjust VR803 center, VR802 to get within 0.1 mV difference reading on both VTVM.
		TP402 (R-Channel)	TP403			
2	Erase Bias	TP804	TP803	CrO2	VR801	• Adjust VR801 to get 75 ~ 90 mV reading on VTVM.
3	Recording Bias	TP401 (L-Channel)	TP403	NORMAL	VR803	• Adjust VR803 to get 3.2 ± 0.1 mV reading on VTVM. • Repeat Steps 2 ~ 4.
		TP402 (R-Channel)	TP403			

AZIMUTH, DOLBY, REC CURRENT, LEVEL INDICATOR ALIGNMENT

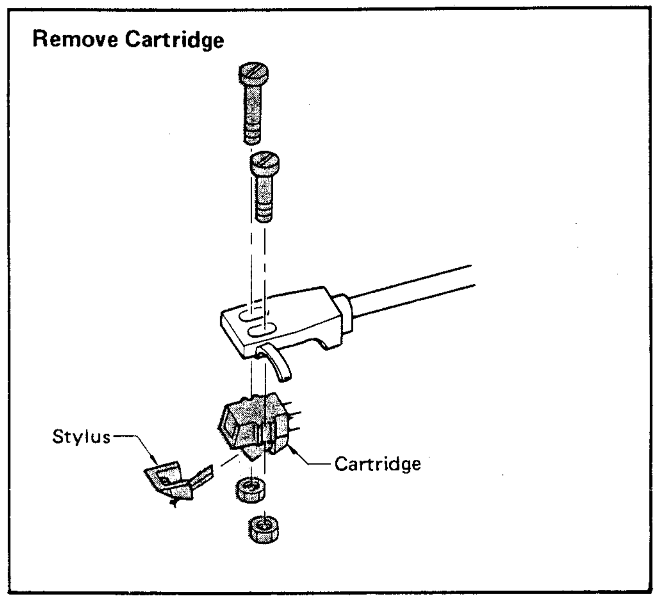
STEP	ALIGNMENT ITEM	VTVM CONNECTION		DOLBY SWITCH	TAPE DECK CONDITION	ADJUST	REMARKS
		Positive	Negative				
1	R/P Head Azimuth	Speaker	Speaker	OUT	PLAY	R/P Head Screw	• Playback a test tape (VTT653). • Turn R/P Head Screw to get max. output of speaker.
2	Dolby Level	TP801 (L-Channel)	TP403	IN	PLAY	VR401	• Playback a test tape (VTT6130). • Adjust VR401 and VR402 to get 580 ± 20 mV reading on VTVM.
		TP802 (R-Channel)	TP403			VR402	
3	REC Current	TP401 (L-Channel)	TP403		REC	VR405	• Connect TP802 to TP803. • Apply 1 kHz signal to both AUX terminals and REC level volume at **+3 dB** (DD mark) on level indicator. • Adjust VR405 and VR406 to get 0.54 ± 0.02 mV reading on VTVM.
		TP402 (R-Channel)	TP403			VR406	
4	Level Indicator	TP801 (L-Channel)	TP403	OUT	REC	VR407	• Apply 1 kHz signal to both AUX terminals • Adjust VR403 and VR404 to get 580 mV reading on VTVM. • Adjust VR407 and VR408 to light 7th indicator (DD mark).
		TP802 (R-Channel)	TP403			VR408	

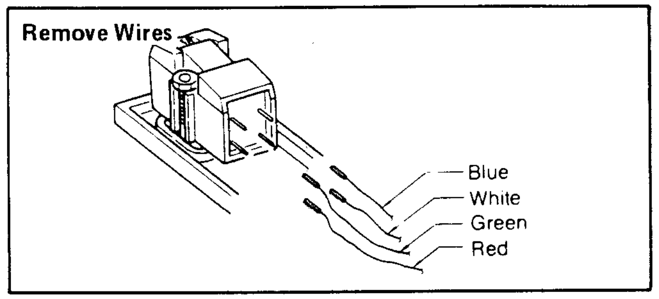
ALIGNMENT POINTS(CASSETTE TAPE DECK)

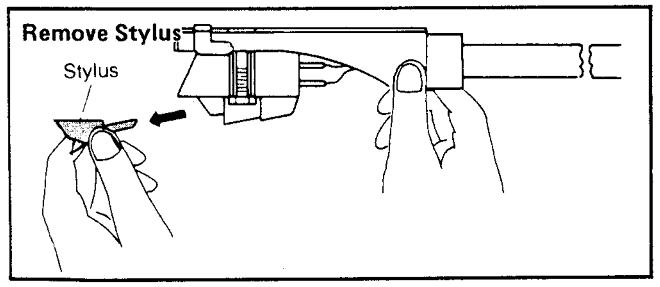


SERVICING THE RECORD PLAYER-1

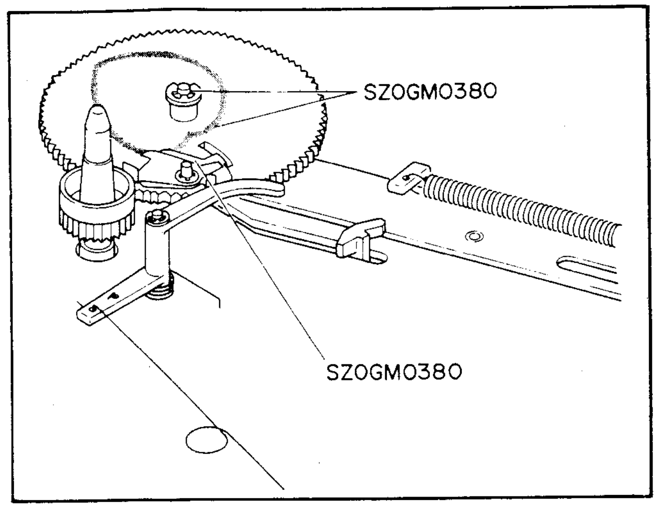
CARTRIDGE AND STYLUS REPLACEMENT

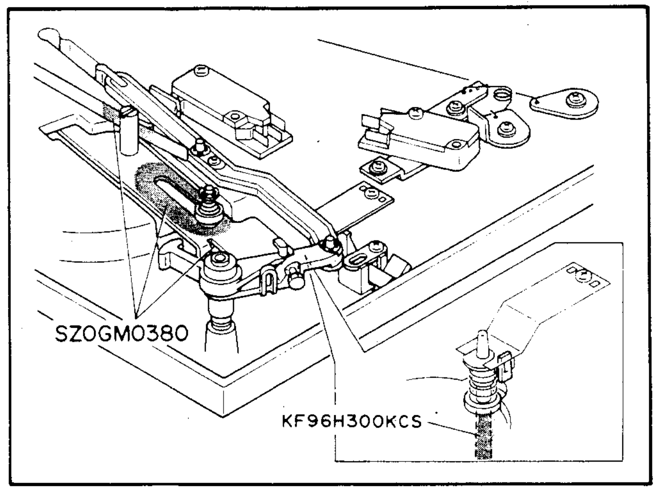

Remove Cartridge
Stylus
Cartridge


Remove Wires
Blue
White
Green
Red


Remove Stylus
Stylus

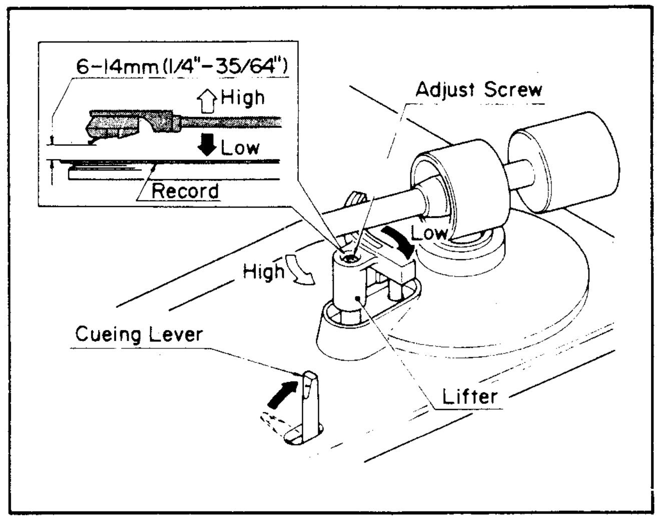
LUBRICATION


SZ0GM0380
SZ0GM0380

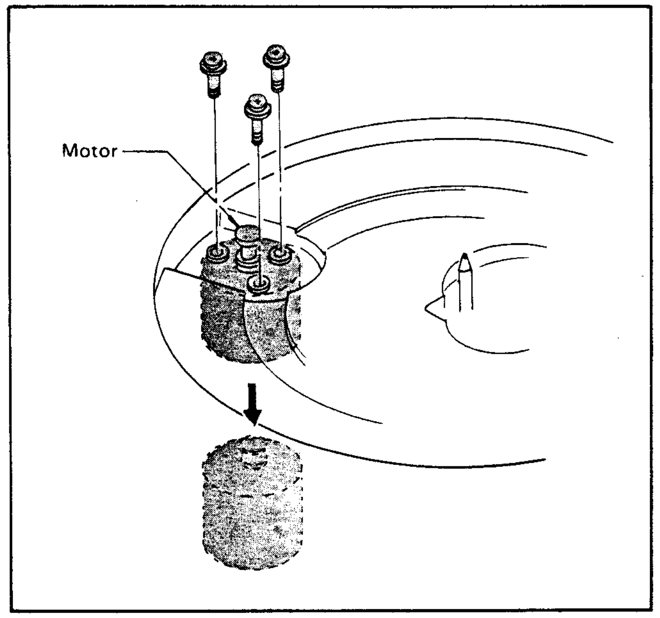

SZ0GM0380
KF96H300KCS

SERVICING THE RECORD PLAYER-2

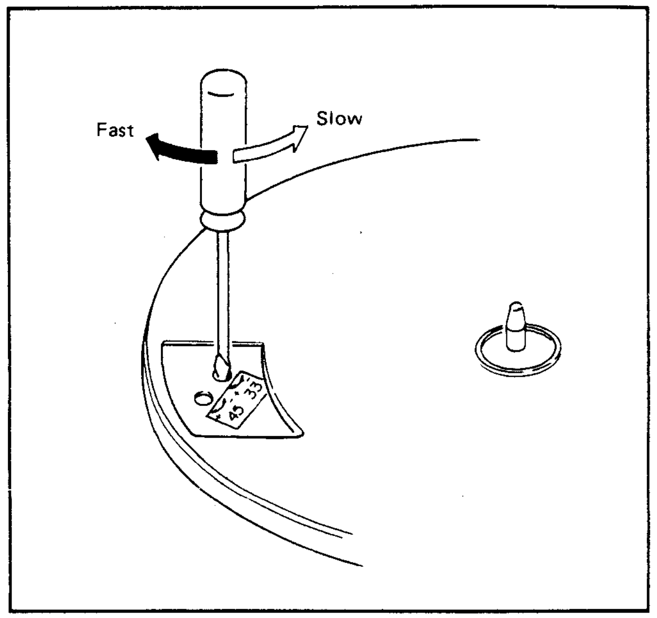
TONE ARM LIFTING HEIGHT ADJUSTMENT


6-14mm (1/4"-35/64")
High
Low
Record
Adjust Screw
Low
High
Cueing Lever
Lifter

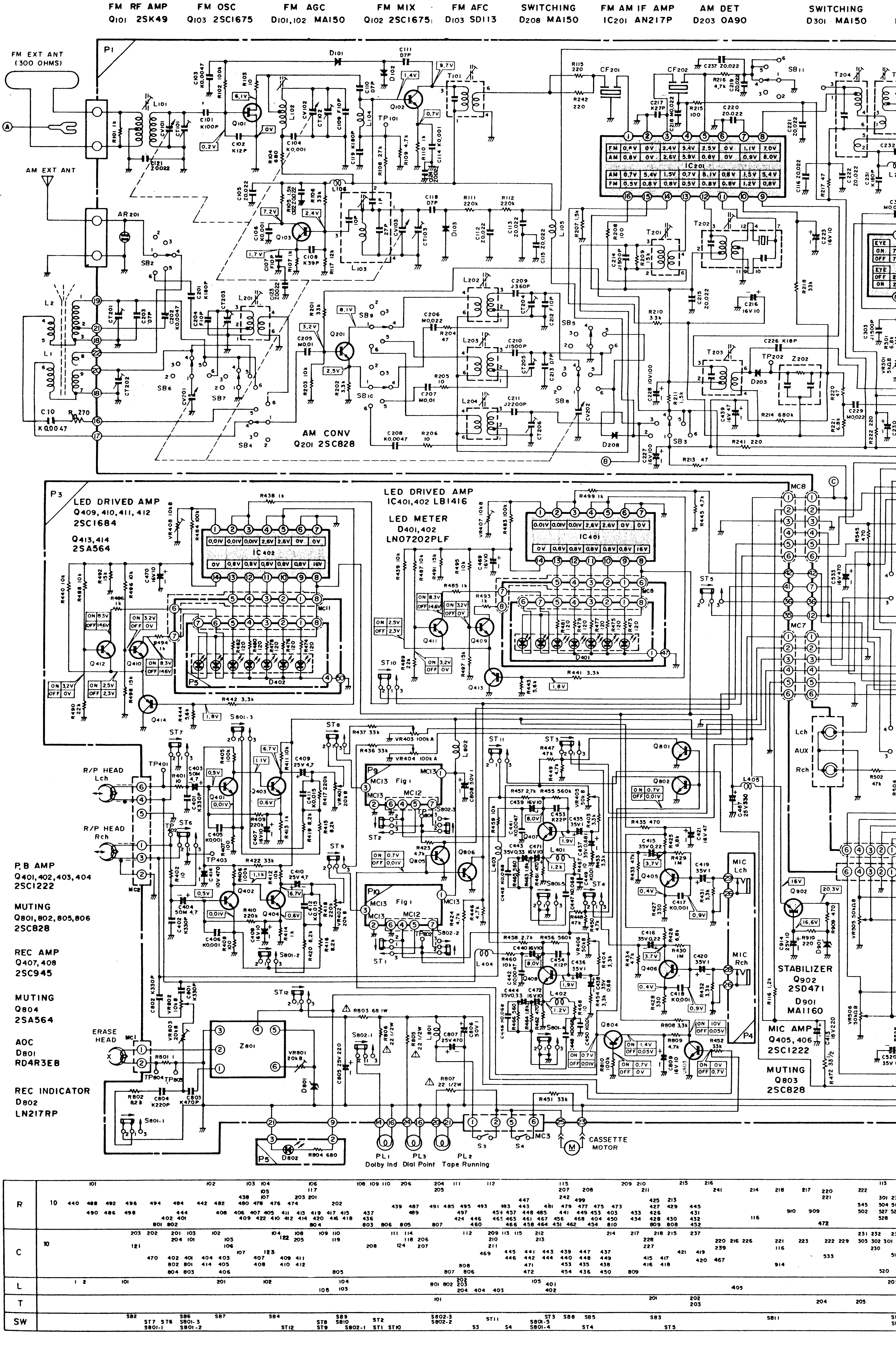
MOTOR REMOVAL



SPEED ADJUSTMENT

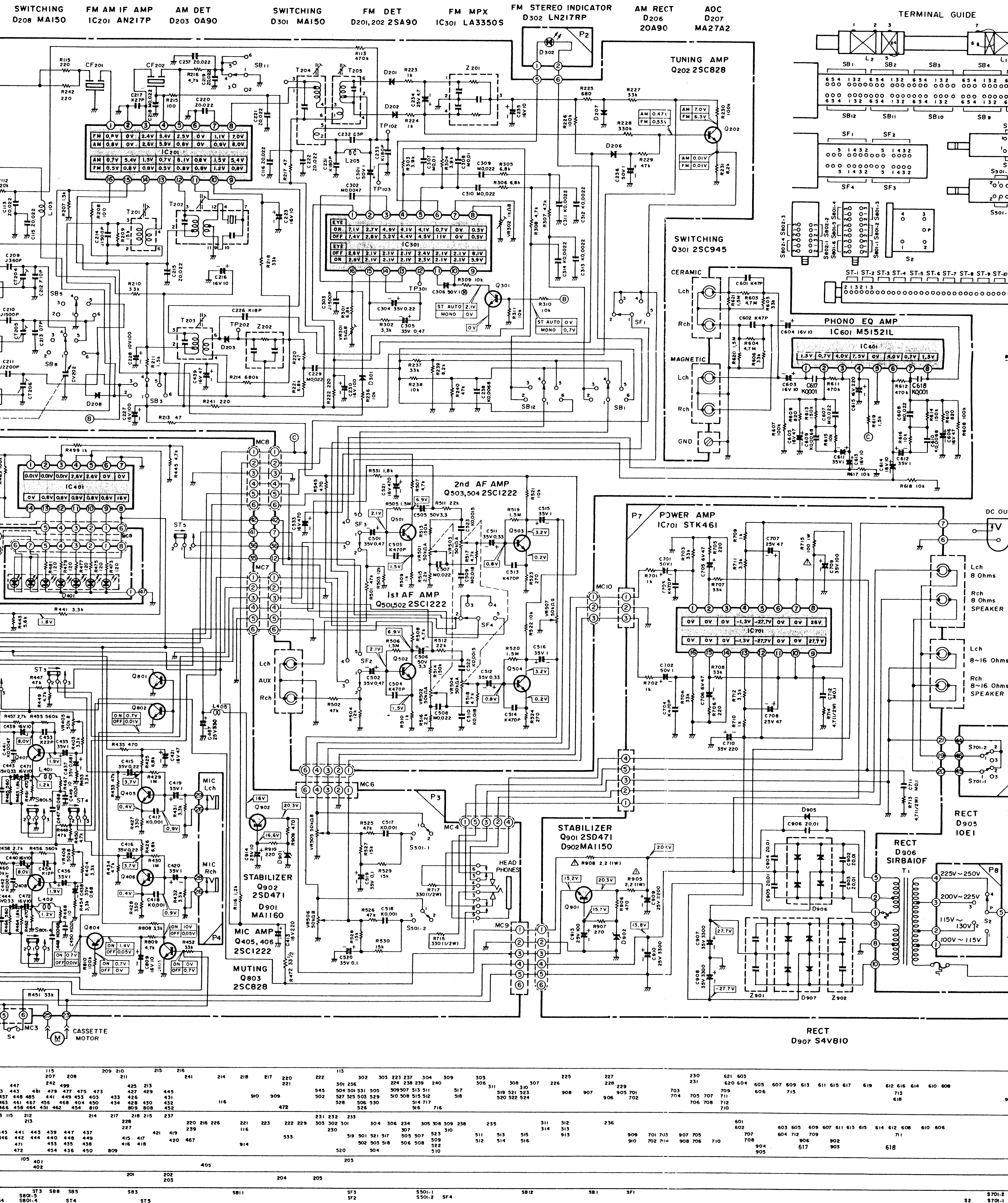

Fast
Slow
45
33

SCHEMATIC

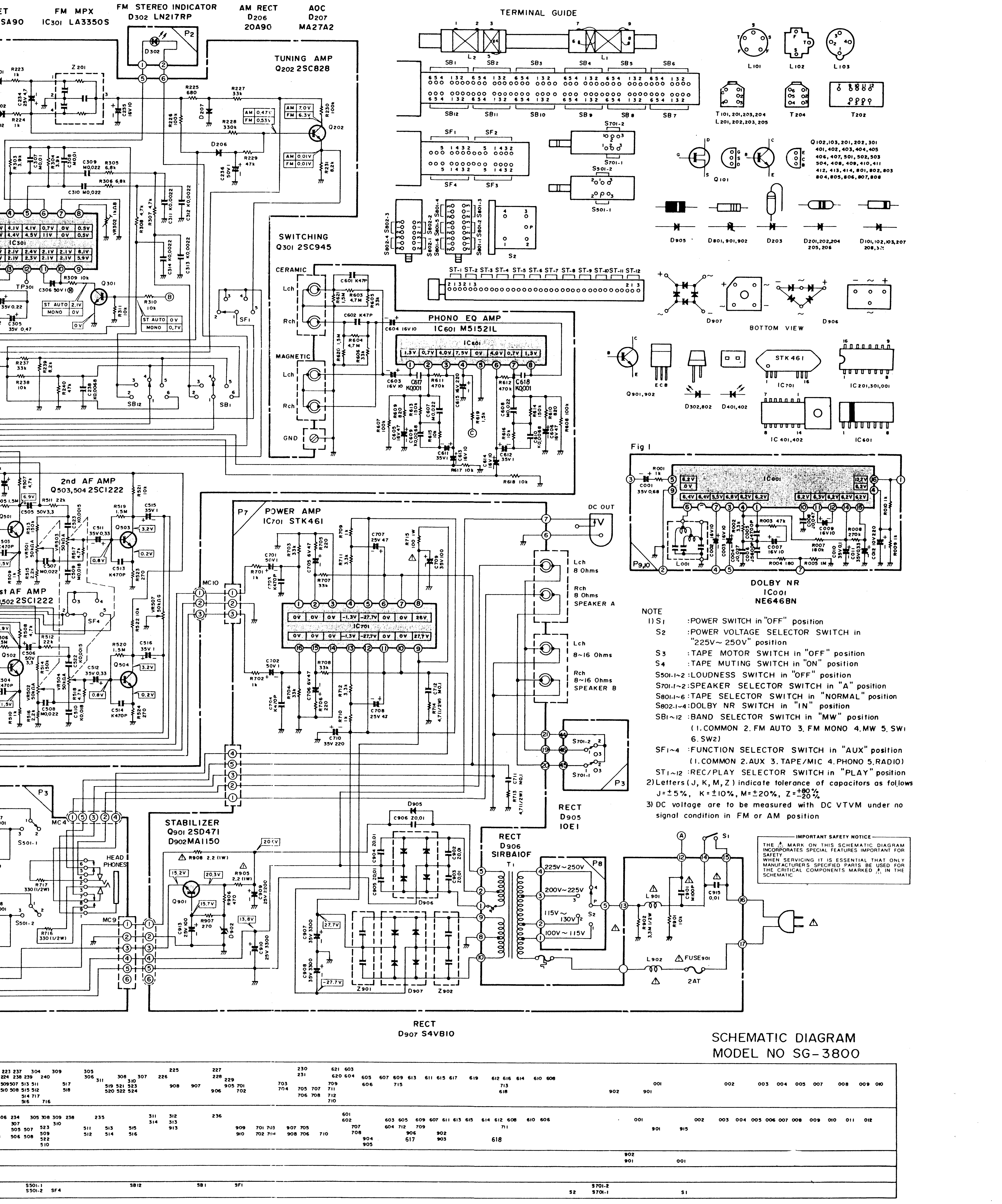

FM RF AMP Q101 2SK49
FM OSC Q103 2SC1675
FM AGC D101,102 MA150
FM MIX Q102 2SC1675
FM AFC D103 SD113
SWITCHING D208 MA150
FM AM IF AMP IC201 AN217P
AM DET D203 OA90
SWITCHING D301 MA150
FM EXT ANT (300 OHMS)
AM EXT ANT
AM CONV Q201 2SC828
LED DRIVED AMP Q409, 410, 411, 412 2SC1684
Q413, 414 2SA564
LED DRIVED AMP IC401,402 LB1416
LED METER D401,402 LN07202PLF
R/P HEAD Lch
R/P HEAD Rch
P.B AMP Q401, 402, 403, 404 2SC1222
MUTING Q801, 802, 805, 806 2SC828
REC AMP Q407, 408 2SC945
MUTING Q804 2SA564
AOC D801 RD4R3EB
REC INDICATOR D802 LN217RP
ERASE HEAD
MIC Lch
MIC Rch
STABILIZER Q902 2SD471
D901 MA1160
MIC AMP Q405, 406 2SC1222
MUTING Q803 2SC828
Lch AUX Rch
PL1 Dolby Ind
PL3 Dial Point
PL2 Tape Running
CASSETTE MOTOR
R
C
L
T
SW

*This diagram might be modified without notice for further development of technology.

SCHEMATIC DIAGRAM (SG-3800)


SWITCHING D208 MA150
FM AM IF AMP IC201 AN217P
AM DET D203 OA90
SWITCHING D301 MA150
FM DET D201, 202 2SA90
FM MPX IC301 LA3350S
FM STEREO INDICATOR D302 LN217RP
AM RECT D206 20A90
AOC D207 MA27A2
TERMINAL GUIDE
TUNING AMP Q202 2SC828
SWITCHING Q301 2SC945
CERAMIC
MAGNETIC
GND
PHONO EQ AMP IC601 M51521L
IC201
IC301
IC401
IC601
2nd AF AMP Q503,504 2SC1222
1st AF AMP Q501,502 2SC1222
POWER AMP IC701 STK461
IC701
DC OUT
Lch 8 Ohms
Rch 8 Ohms SPEAKER
Lch 8~16 Ohms
Rch 8~16 Ohms SPEAKER
AUX
MIC Lch
MIC Rch
HEAD PHONES
STABILIZER Q902 2SD471 D901 MA1160
MIC AMP Q405, 406 2SC1222
MUTING Q803 2SC828
STABILIZER Q901 2SD471 D902 MA1150
RECT D905 10E1
RECT D906 SIRBA10F
RECT D907 S4VB10
225V~250V
200V~225V
115V~130V
100V~115V
CASSETTE MOTOR
MC3
MC4
MC6
MC7
MC8
MC9
MC10
P2
P3
P4
P7
P8
Z901
Z902
D907
T1
SB1
SB3
SB5
SB8
SB11
SB12
SF1
SF2
SF3
SF4
S501-1
S501-2
ST1
ST4
ST5
Q801
Q802
Q804
Q405
Q406
Q301
Q501
Q502
Q503
Q504
Q901
Q902

AGRAM (SG-3800)


FM MPX
IC301 LA3350S
FM STEREO INDICATOR
D302 LN217RP
AM RECT
D206
20A90
AOC
D207
MA27A2
TUNING AMP
Q202 2SC828
SWITCHING
Q301 2SC945
CERAMIC
MAGNETIC
PHONO EQ AMP
IC601 M51521L
TERMINAL GUIDE
BOTTOM VIEW
Fig I
2nd AF AMP
Q503,504 2SC1222
1st AF AMP
Q501,502 2SC1222
POWER AMP
IC701 STK461
DC OUT
Lch 8 Ohms
Rch 8 Ohms
SPEAKER A
Lch 8~16 Ohms
Rch 8~16 Ohms
SPEAKER B
HEAD PHONES
STABILIZER
Q901 2SD471
D902 MA1150
RECT
D906
SIRBAIOF
RECT
D905
10E1
RECT
D907 S4VB10
225V~250V
200V~225V
115V~130V
100V~115V
FUSE901
2AT

DOLBY NR
IC001
NE646BN

NOTE

1) S1 :POWER SWITCH in "OFF" position
S2 :POWER VOLTAGE SELECTOR SWITCH in "225V~ 250V" position
S3 :TAPE MOTOR SWITCH in "OFF" position
S4 :TAPE MUTING SWITCH in "ON" position
S501-1~2 :LOUDNESS SWITCH in "OFF" position
S701-1~2 :SPEAKER SELECTOR SWITCH in "A" position
S801-1~6 :TAPE SELECTOR SWITCH in "NORMAL" position
S802-1~4 :DOLBY NR SWITCH in "IN" position
SB1~12 :BAND SELECTOR SWITCH in "MW" position (1.COMMON 2.FM AUTO 3.FM MONO 4.MW 5.SW1 6.SW2)
SF1~4 :FUNCTION SELECTOR SWITCH in "AUX" position (1.COMMON 2.AUX 3.TAPE/MIC 4.PHONO 5.RADIO)
ST1~12 :REC/PLAY SELECTOR SWITCH in "PLAY" position

2) Letters (J, K, M, Z) indicate tolerance of capacitors as follows
J=±5%, K=±10%, M=±20%, Z=$^{+80\%}_{-20\%}$

3) DC voltage are to be measured with DC VTVM under no signal condition in FM or AM position

IMPORTANT SAFETY NOTICE

THE ⚠ MARK ON THIS SCHEMATIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR SAFETY.
WHEN SERVICING IT IS ESSENTIAL THAT ONLY MANUFACTURERS SPECIFIED PARTS BE USED FOR THE CRITICAL COMPONENTS MARKED ⚠ IN THE SCHEMATIC

SCHEMATIC DIAGRAM
MODEL NO SG-3800

CIRCUIT BOARD AND WIRING

Q101

D	6.1V
G	0.2V
S	0V

Q102

C	9.7V
B	1.4V
E	0.7V

Q103

C	7.2V
B	2.4V
E	1.7V

Q201

C	8.1V
B	3.2V
E	2.5V

Q202

	C	B	E
AM	7.0V	0.47V	0.01V
FM	6.3V	0.53V	0.01V

Q301

	C	B	E
ST OUTO	2.1V	0V	0V
MONO	0V	0.7V	0V

IC201

PIN NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
AM	0.8V	0V	2.6V	5.9V	0.8V	0V	0.9V	8.0V	5.4V	1.5V	0.8V	8.1V	0.7V	1.5V	5.4V	0.7V
FM	0.8V	0V	2.4V	5.4V	2.5V	0V	1.1V	7.0V	0.8V	1.2V	0.8V	0.8V	0.5V	0.8V	0.8V	0.5V

IC301

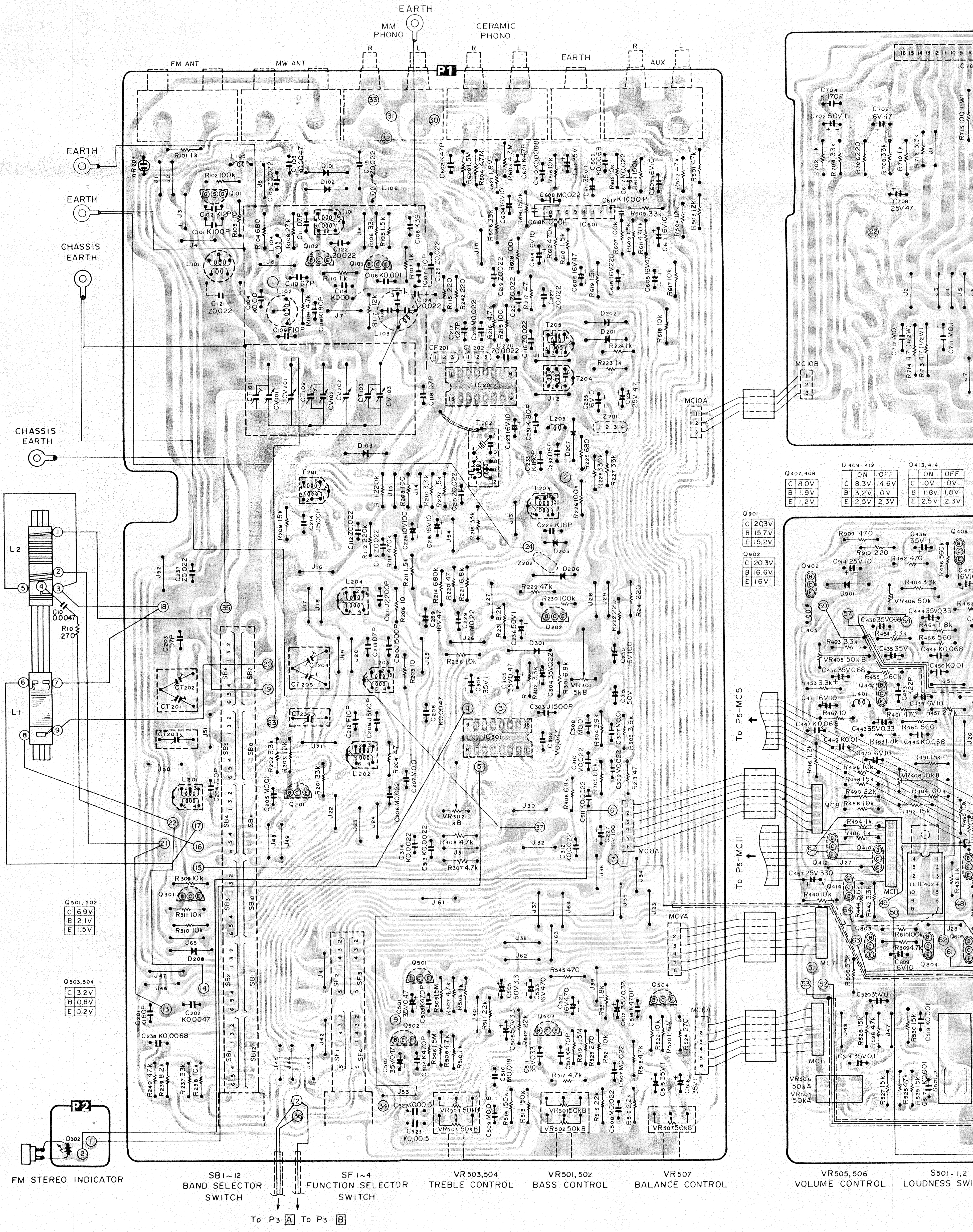
PIN NO		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
EYE	ON	7.1V	2.7V	4.9V	4.1V	4.1V	0.7V	0V	0.5V	5.9V	2.1V	2.1V	2.3V	2.1V	2.1V	2.1V	2.8V
	OFF	7.4V	2.8V	5.2V	4.4V	4.5V	1.1V	0V	0.5V	6.1V	2.1V	2.1V	2.4V	2.1V	2.1V	2.1V	2.8V

IC601

PIN NO	1	2	3	4	5	6	7	8
VOLT	1.3V	0.7V	4.0V	7.5V	0V	4.0V	0.7V	1.3V

IC701

PIN NO	1	2	3	4	5	6	7	8	9	10
VOLT	0V	0V	0V	-1.3V	-27.7V	0V	0V	26V	27.7V	0V


EARTH
MM PHONO
CERAMIC PHONO
R
L
FM ANT
MW ANT
EARTH
AUX
P1
EARTH
EARTH
CHASSIS EARTH
CHASSIS EARTH
L2
L1
P2
D302
FM STEREO INDICATOR
IC201
IC301
IC601
MC10A
MC10B
MC8A
MC7A
MC6A
To P5-MC5
To P5-MC11
SB1~12 BAND SELECTOR SWITCH
SF1~4 FUNCTION SELECTOR SWITCH
To P3-A
To P3-B
VR503,504 TREBLE CONTROL
VR501,502 BASS CONTROL
VR507 BALANCE CONTROL
VR505,506 VOLUME CONTROL
S501-1,2 LOUDNESS SWI

Q407, 408

C	8.0V
B	1.9V
E	1.2V

Q409~412

	ON	OFF
C	8.3V	14.6V
B	3.2V	0V
E	2.5V	2.3V

Q413, 414

	ON	OFF
C	0V	0V
B	1.8V	1.8V
E	2.5V	2.3V

Q901

C	20.3V
B	15.7V
E	15.2V

Q902

C	20.3V
B	16.6V
E	16V

Q501, 502

C	6.9V
B	2.1V
E	1.5V

Q503, 504

C	3.2V
B	0.8V
E	0.2V

*This diagram might be modified without notice for further development of technology.

RCUIT BOARD AND WIRING CONNECTION (SG-3800)

14	15	16
.5V	5.4V	0.7V
0.8V	0.8V	0.5V

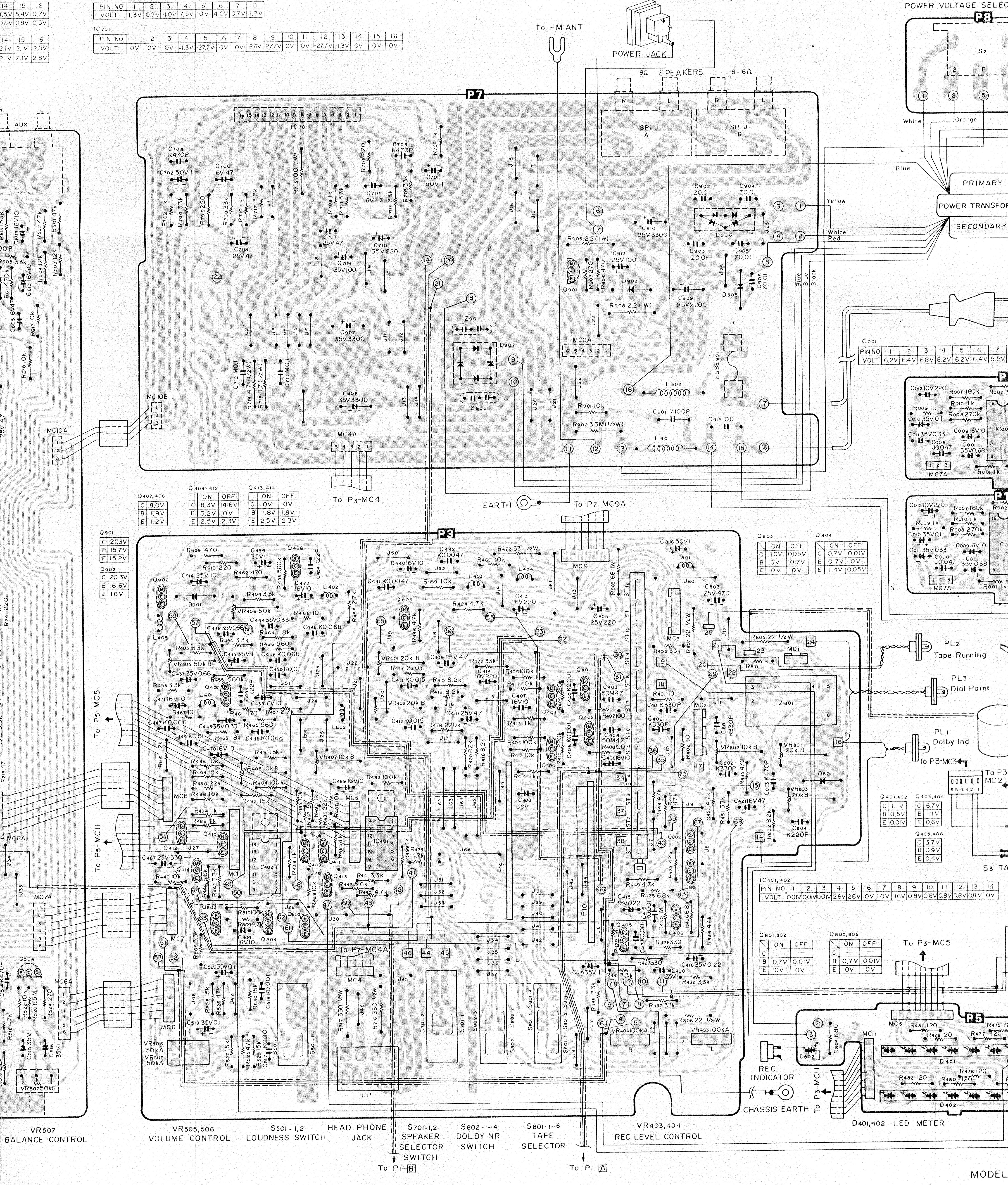
14	15	16
2.1V	2.1V	2.8V
2.1V	2.1V	2.8V

IC601

PIN NO	1	2	3	4	5	6	7	8
VOLT	1.3V	0.7V	4.0V	7.5V	0V	4.0V	0.7V	1.3V

IC701

PIN NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
VOLT	0V	0V	0V	-1.3V	-27.7V	0V	0V	26V	27.7V	0V	0V	-27.7V	-1.3V	0V	0V	0V



POWER VOLTAGE SELEC
P8
White
Orange
Blue
Yellow
White
Red
Blue
Blue
Black
PRIMARY
POWER TRANSFOR
SECONDARY
To FM ANT
POWER JACK
8Ω SPEAKERS 8-16Ω
SP-J A
SP-J B
AUX
P7
IC701
MC10A
MC10B
MC4A
MC9A
FUSE901
To P3-MC4
EARTH
To P7-MC9A
P3
MC9
MC3
MC2
MC1
Z801
MC4
MC5
MC6
MC7
MC8
MC11
To P5-MC5
To P5-MC11
To P7-MC4A
PL2 Tape Running
PL3 Dial Point
PL1 Dolby Ind
To P3-MC3
To P3 MC2
S3 TA
To P3-MC5
P5
REC INDICATOR
CHASSIS EARTH
To P3-MC11
D401
D402
H.P
VR507 BALANCE CONTROL
VR505,506 VOLUME CONTROL
S501-1,2 LOUDNESS SWITCH
HEAD PHONE JACK
S701-1,2 SPEAKER SELECTOR SWITCH
S802-1~4 DOLBY NR SWITCH
S801-1~6 TAPE SELECTOR
VR403,404 REC LEVEL CONTROL
D401,402 LED METER
To P1-B
To P1-A
MODEL

Q407,408

C	8.0V
B	1.9V
E	1.2V

Q409~412

	ON	OFF
C	8.3V	14.6V
B	3.2V	0V
E	2.5V	2.3V

Q413,414

	ON	OFF
C	0V	0V
B	1.8V	1.8V
E	2.5V	2.3V

Q901

C	20.3V
B	15.7V
E	15.2V

Q902

C	20.3V
B	16.6V
E	16V

Q803

	ON	OFF
C	10V	0.05V
B	0V	0.7V
E	0V	0V

Q804

	ON	OFF
C	0.7V	0.01V
B	0.7V	0V
E	1.4V	0.05V

IC001

PIN NO	1	2	3	4	5	6	7
VOLT	6.2V	6.4V	6.8V	6.2V	6.2V	6.4V	5.5V

Q401,402

C	1.1V
B	0.5V
E	0.01V

Q403,404

C	6.7V
B	1.1V
E	0.6V

Q405,406

C	3.7V
B	0.9V
E	0.4V

IC401,402

PIN NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14
VOLT	0.01V	0.01V	0.01V	2.6V	2.6V	0V	0V	16V	0.8V	0.8V	0.8V	0.8V	0.8V	0V

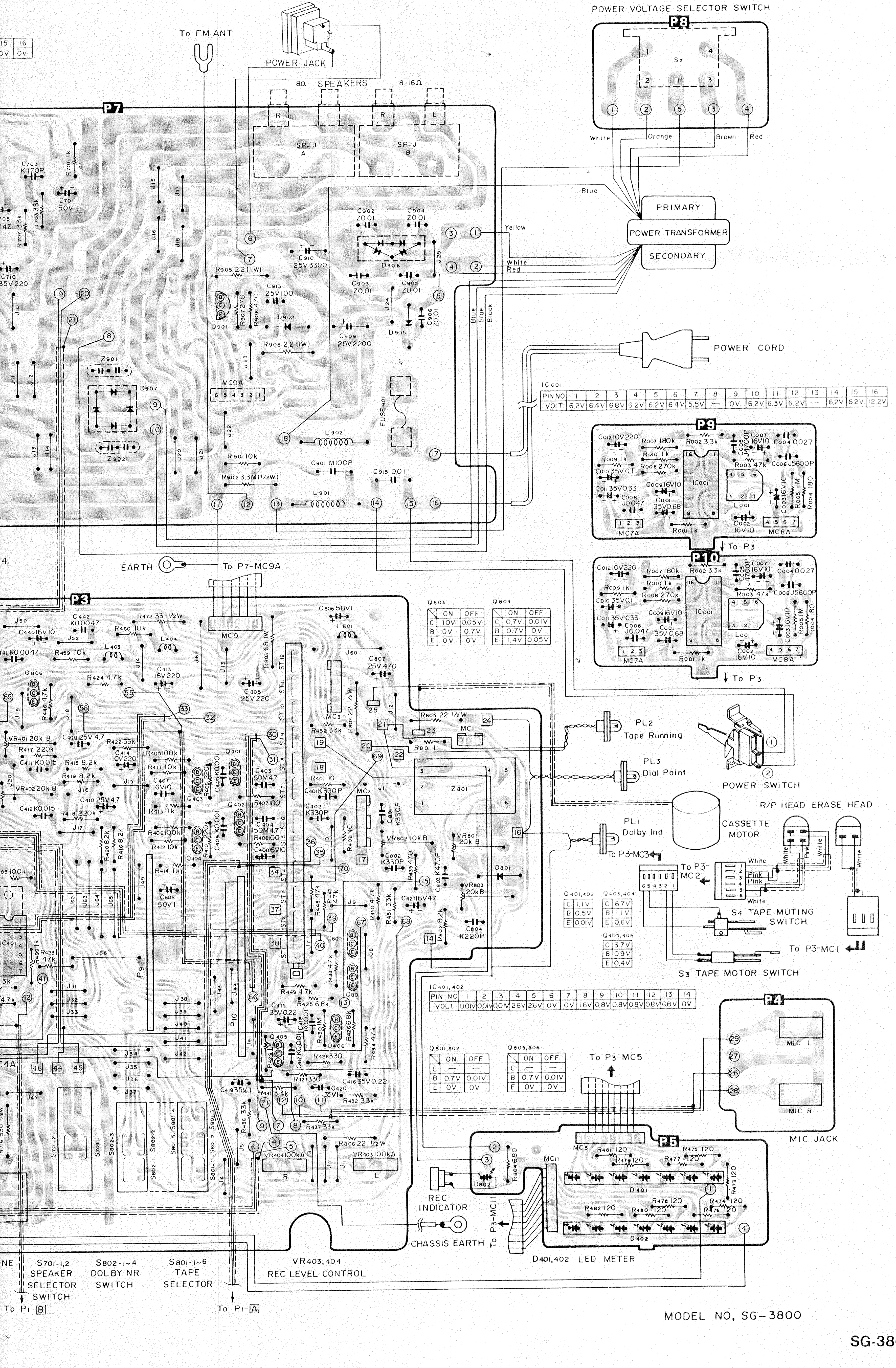
Q801,802

	ON	OFF
C	—	—
B	0.7V	0.01V
E	0V	0V

Q805,806

	ON	OFF
C	—	—
B	0.7V	0.01V
E	0V	0V

ECTION (SG-3800)


POWER VOLTAGE SELECTOR SWITCH
P8
S2
White
Orange
Brown
Red
To FM ANT
POWER JACK
8Ω SPEAKERS 8-16Ω
SP-J A
SP-J B
P7
Blue
Yellow
White
Red
PRIMARY
POWER TRANSFORMER
SECONDARY
D906
D905
D902
D907
Q901
Z901
Z902
MC9A
FUSE901
L902
L901
Blue
Blue
Black
POWER CORD
P9
P10
IC001
MC7A
MC8A
To P3
EARTH
To P7-MC9A
P3
MC9
MC3
MC2
MC1
Z801
PL2 Tape Running
PL3 Dial Point
POWER SWITCH
CASSETTE MOTOR
R/P HEAD ERASE HEAD
PL1 Dolby Ind
To P3-MC3
To P3-MC2
White
Pink
Pink
White
S4 TAPE MUTING SWITCH
To P3-MC1
S3 TAPE MOTOR SWITCH
P4
MIC L
MIC R
MIC JACK
To P3-MC5
P5
MC5
MC11
D802
D401
D402
REC INDICATOR
CHASSIS EARTH
To P3-MC11
D401,402 LED METER
VR403,404 REC LEVEL CONTROL
S701-1,2 SPEAKER SELECTOR SWITCH
S802-1~4 DOLBY NR SWITCH
S801-1~6 TAPE SELECTOR
To P1-B
To P1-A

IC001

PIN NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
VOLT	6.2V	6.4V	6.8V	6.2V	6.2V	6.4V	5.5V	—	0V	6.2V	6.3V	6.2V	—	6.2V	6.2V	12.2V

Q803

	ON	OFF
C	10V	0.05V
B	0V	0.7V
E	0V	0V

Q804

	ON	OFF
C	0.7V	0.01V
B	0.7V	0V
E	1.4V	0.05V

Q401,402

C	1.1V
B	0.5V
E	0.01V

Q403,404

C	6.7V
B	1.1V
E	0.6V

Q405,406

C	3.7V
B	0.9V
E	0.4V

IC401, 402

PIN NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14
VOLT	0.01V	0.01V	0.01V	2.6V	2.6V	0V	0V	16V	0.8V	0.8V	0.8V	0.8V	0.8V	0V

Q801,802

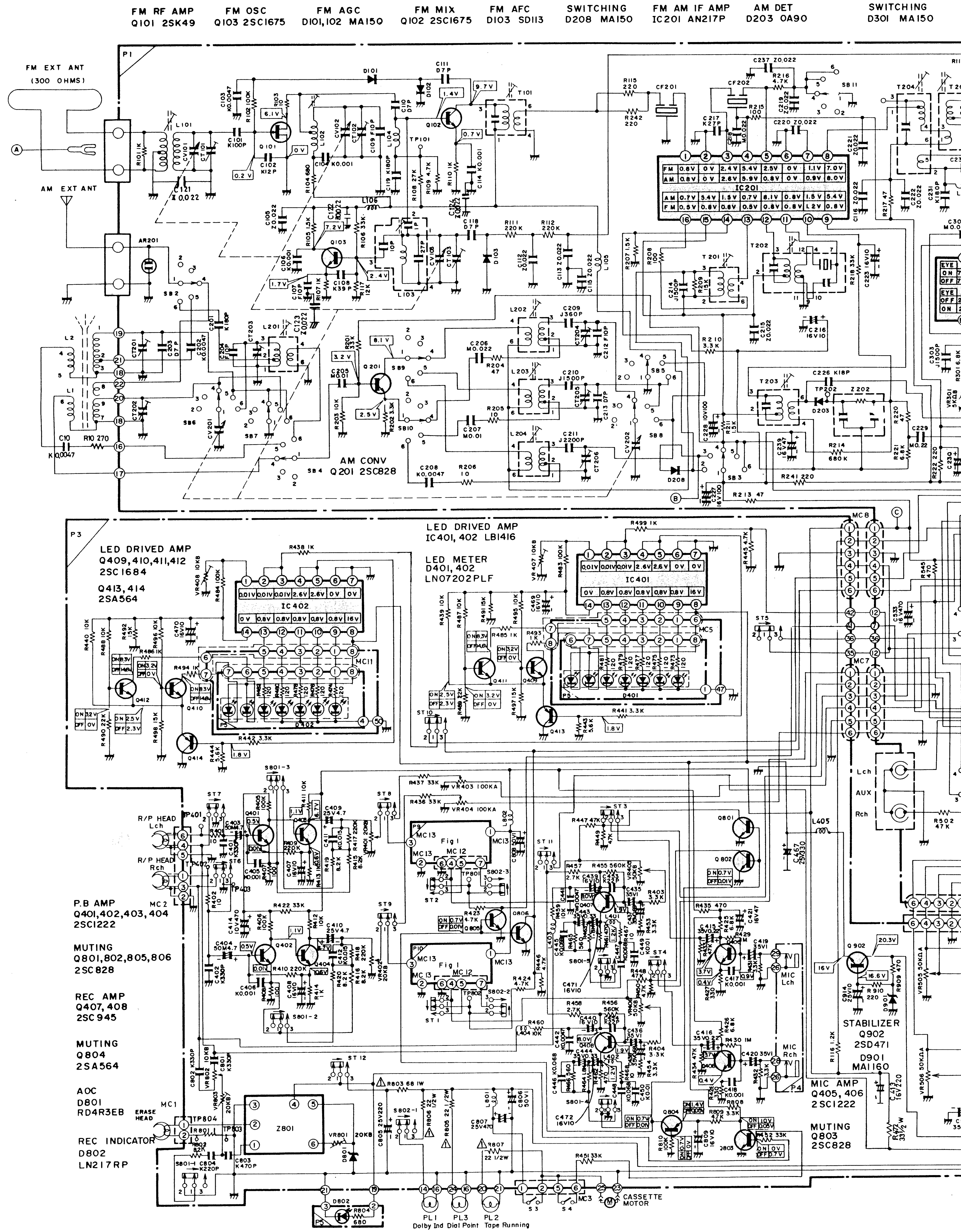
	ON	OFF
C	—	—
B	0.7V	0.01V
E	0V	0V

Q805,806

	ON	OFF
C	—	—
B	0.7V	0.01V
E	0V	0V

MODEL NO. SG-3800

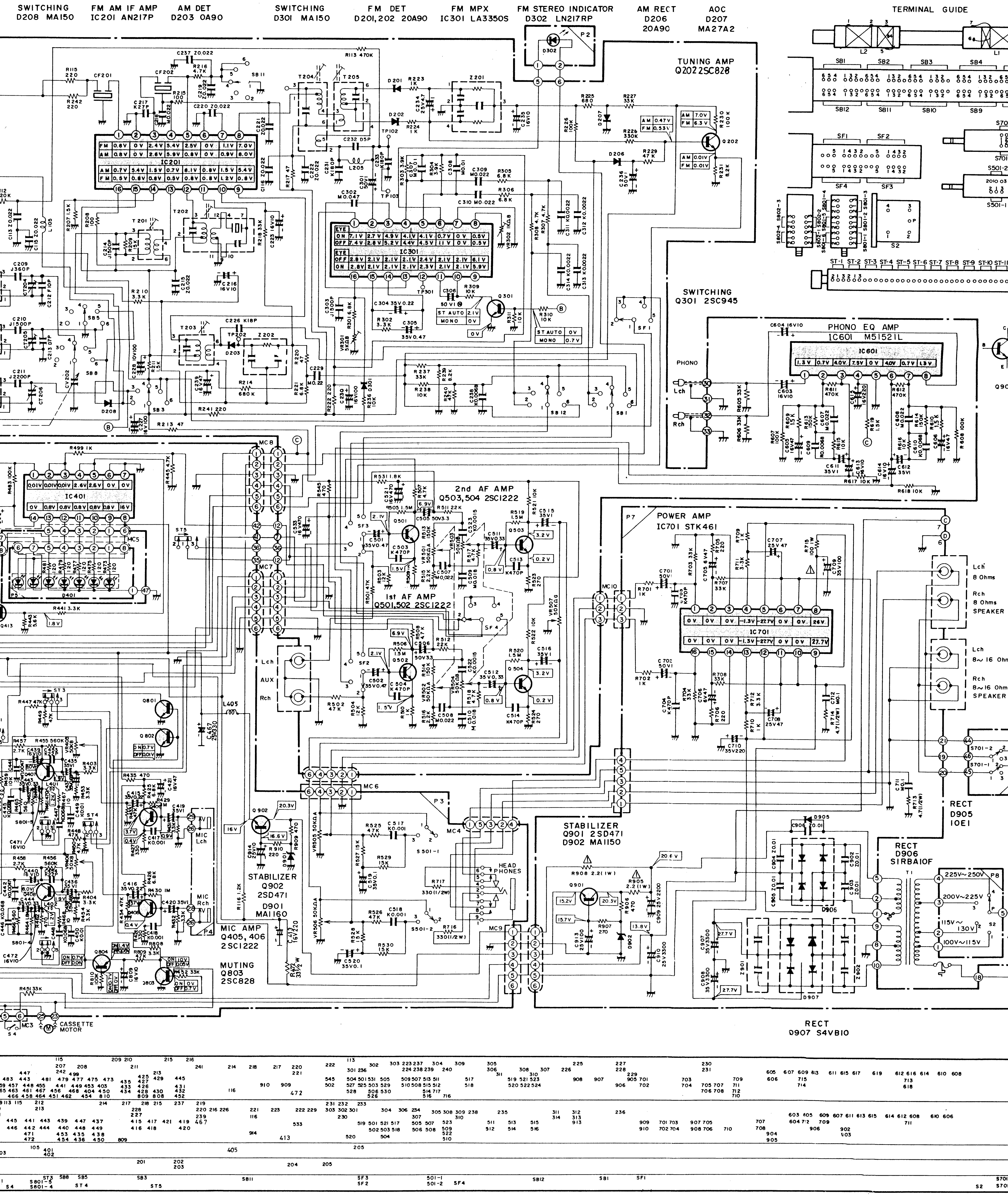
SCHEMATIC DIAG


FM RF AMP Q101 2SK49
FM OSC Q103 2SC1675
FM AGC D101,102 MA150
FM MIX Q102 2SC1675
FM AFC D103 SD113
SWITCHING D208 MA150
FM AM IF AMP IC201 AN217P
AM DET D203 OA90
SWITCHING D301 MA150
FM EXT ANT (300 OHMS)
AM EXT ANT
AM CONV Q201 2SC828
LED DRIVED AMP Q409,410,411,412 2SC1684
Q413,414 2SA564
LED DRIVED AMP IC401,402 LB1416
LED METER D401,402 LN07202PLF
IC401
IC402
IC201
D401
D402
R/P HEAD Lch
R/P HEAD Rch
P.B AMP Q401,402,403,404 2SC1222
MUTING Q801,802,805,806 2SC828
REC AMP Q407,408 2SC945
MUTING Q804 2SA564
AOC D801 RD4R3EB
ERASE HEAD
REC INDICATOR D802 LN217RP
Z801
Fig I
MC12
MC13
Lch
AUX
Rch
MIC Lch
MIC Rch
STABILIZER Q902 2SD471 D901 MA1160
MIC AMP Q405,406 2SC1222
MUTING Q803 2SC828
PL1 Dolby Ind
PL3 Dial Point
PL2 Tape Running
S3
S4
MC3
CASSETTE MOTOR

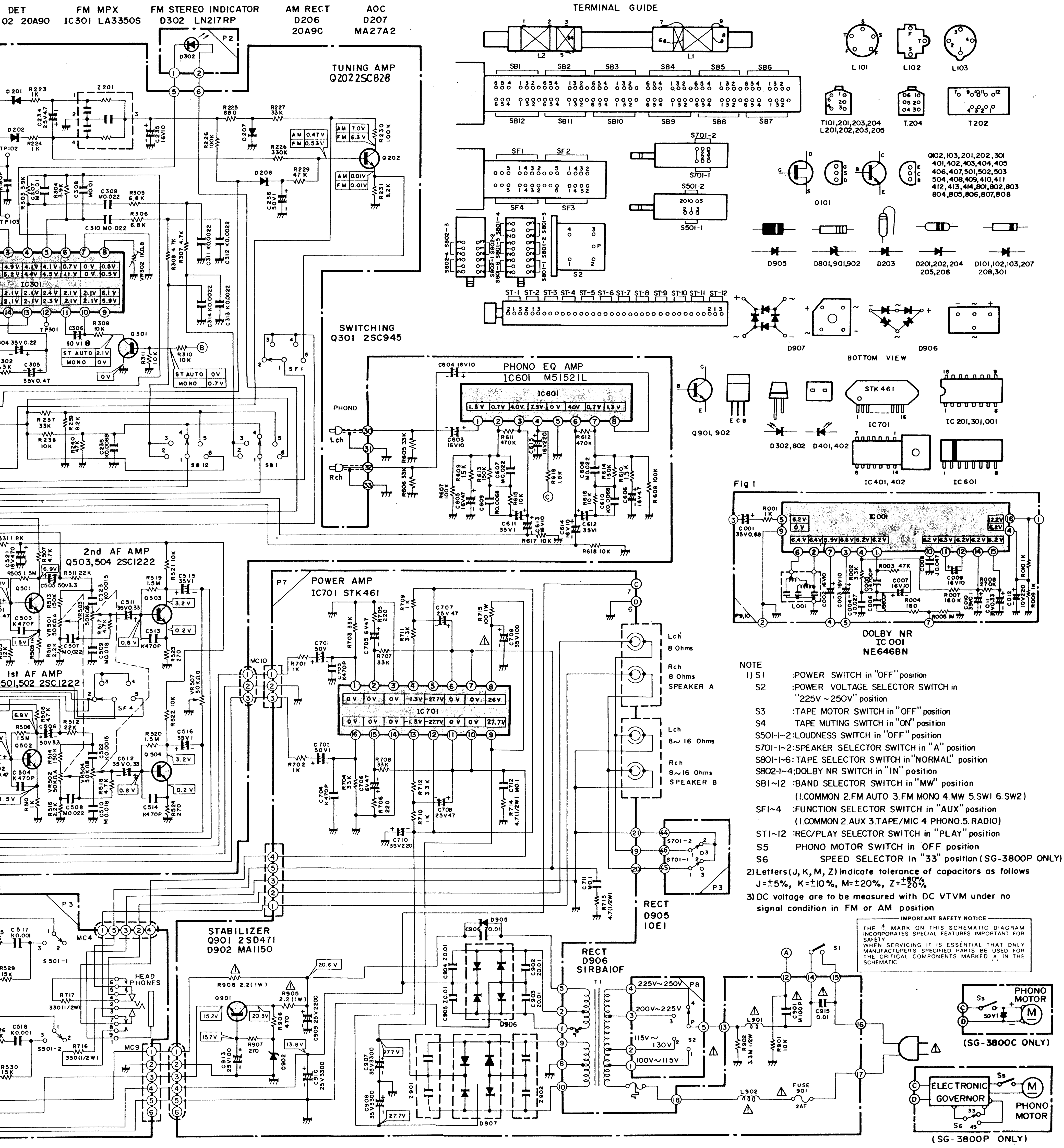
R	101 102 103 104 106 108 109 110 206 204 111 112 115 209 210 215 216 222 10 105 117 205 207 208 211 241 214 218 217 220 438 107 203 201 202 447 242 499 213 221 440 488 492 496 494 484 442 482 480 478 476 474 439 487 491 485 495 493 483 443 481 479 477 475 473 435 425 429 445 545 490 486 498 444 408 406 407 405 411 413 419 417 415 437 489 497 459 457 448 455 441 449 453 403 433 427 431 910 909 502 402 401 409 422 410 412 414 420 416 418 436 424 446 465 463 461 467 456 468 404 450 434 426 430 432 116 472 801 802 804 803 806 805 807 460 466 458 464 451 462 454 810 428 809 808 452
C	203 202 201 103 102 104 108 109 110 111 114 112 209 113 115 212 214 217 218 215 237 219 231 232 10 121 204 101 105 205 119 124 118 206 210 213 228 220 216 226 221 223 222 229 303 302 106 122 208 207 211 227 239 116 230 107 469 445 441 443 439 447 437 415 417 421 419 467 533 470 402 401 404 403 407 409 411 446 442 444 440 448 449 416 418 420 802 801 414 405 408 410 412 808 471 453 435 438 914 413 804 803 406 805 807 806 472 454 436 450 809
L	1 2 101 201 102 106 104 103 801 802 202 203 204 404 403 105 401 402 405
T	101 201 202 203 204 205
SW	SB2 ST7 ST6 S801-1 SB6 S801-3 S801-2 SB7 SB4 ST12 ST8 ST9 SB9 SB10 S802-1 ST2 ST1 ST10 S802-3 S802-2 S3 ST11 S4 ST3 S801-5 S801-4 SB8 SB5 ST4 SB3 ST5 SB11

*This diagram might be modified without notice for further development of technology.

SCHEMATIC DIAGRAM(SG-3800P/SG-3800C)


SWITCHING D208 MA150
FM AM IF AMP IC201 AN217P
AM DET D203 0A90
SWITCHING D301 MA150
FM DET D201,202 20A90
FM MPX IC301 LA3350S
FM STEREO INDICATOR D302 LN217RP
AM RECT D206 20A90
AOC D207 MA27A2
TERMINAL GUIDE
TUNING AMP Q202 2SC828
SWITCHING Q301 2SC945
PHONO EQ AMP IC601 M51521L
PHONO
Lch
Rch
2nd AF AMP Q503,504 2SC1222
1st AF AMP Q501,502 2SC1222
POWER AMP IC701 STK461
Lch 8 Ohms
Rch 8 Ohms SPEAKER
Lch 8~16 Ohms
Rch 8~16 Ohms SPEAKER
AUX
HEAD PHONES
STABILIZER Q902 2SD471 D901 MA1160
MIC AMP Q405, 406 2SC1222
MUTING Q803 2SC828
STABILIZER Q901 2SD471 D902 MA1150
RECT D905 10E1
RECT D906 SIRBA10F
RECT D907 S4VB10
MIC Lch
MIC Rch
CASSETTE MOTOR
225V~250V
200V~225V
115V~130V
100V~115V
IC201
IC301
IC401
IC601
IC701
D401
MC3
MC4
MC5
MC6
MC7
MC8
MC9
MC10
P2
P3
P4
P7
P8

AM(SG-3800P/SG-3800C)


DET
02 20A90
FM MPX
IC301 LA3350S
FM STEREO INDICATOR
D302 LN217RP
AM RECT
D206
20A90
AOC
D207
MA27A2
TERMINAL GUIDE
TUNING AMP
Q202 2SC828
IC301
SWITCHING
Q301 2SC945
ST AUTO
MONO
PHONO EQ AMP
IC601 M51521L
PHONO
Lch
Rch
2nd AF AMP
Q503,504 2SC1222
1st AF AMP
501,502 2SC1222
POWER AMP
IC701 STK461
Lch 8 Ohms
Rch 8 Ohms
SPEAKER A
Lch 8~16 Ohms
Rch 8~16 Ohms
SPEAKER B
HEAD PHONES
STABILIZER
Q901 2SD471
D902 MA1150
RECT
D905
10E1
RECT
D906
S1RBA10F
225V~250V
200V~225V
115V~130V
100V~115V
FUSE 901 2AT
RECT
D907 S4VB10
T101,201,203,204
L201,202,203,205
T204
T202
Q101
Q102,103,201,202,301
401,402,403,404,405
406,407,501,502,503
504,408,409,410,411
412,413,414,801,802,803
804,805,806,807,808
D905
D801,901,902
D203
D201,202,204
205,206
D101,102,103,207
208,301
D907
BOTTOM VIEW
D906
Q901, 902
E C B
D302,802
D401,402
STK461
IC701
IC 201,301,001
IC401, 402
IC601
Fig I
DOLBY NR
IC 001
NE646BN
PHONO MOTOR
(SG-3800C ONLY)
ELECTRONIC GOVERNOR
PHONO MOTOR
(SG-3800P ONLY)

NOTE

1) S1 :POWER SWITCH in "OFF" position
   S2 :POWER VOLTAGE SELECTOR SWITCH in "225V ~ 250V" position
   S3 :TAPE MOTOR SWITCH in "OFF" position
   S4 TAPE MUTING SWITCH in "ON" position
   S501-1~2 :LOUDNESS SWITCH in "OFF" position
   S701-1~2 :SPEAKER SELECTOR SWITCH in "A" position
   S801-1~6 :TAPE SELECTOR SWITCH in "NORMAL" position
   S802-1~4 :DOLBY NR SWITCH in "IN" position
   SB1~12 :BAND SELECTOR SWITCH in "MW" position
   (1.COMMON 2.FM AUTO 3.FM MONO 4.MW 5.SW1 6.SW2)
   SF1~4 :FUNCTION SELECTOR SWITCH in "AUX" position
   (1.COMMON 2.AUX 3.TAPE/MIC 4.PHONO 5.RADIO)
   ST1~12 :REC/PLAY SELECTOR SWITCH in "PLAY" position
   S5 PHONO MOTOR SWITCH in OFF position
   S6 SPEED SELECTOR in "33" position (SG-3800P ONLY)
2) Letters (J, K, M, Z) indicate tolerance of capacitors as follows
   J=±5%, K=±10%, M=±20%, Z=$^{+80\%}_{-20\%}$
3) DC voltage are to be measured with DC VTVM under no signal condition in FM or AM position

IMPORTANT SAFETY NOTICE

THE ⚠ MARK ON THIS SCHEMATIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR SAFETY.
WHEN SERVICING IT IS ESSENTIAL THAT ONLY MANUFACTURER'S SPECIFIED PARTS BE USED FOR THE CRITICAL COMPONENTS MARKED ⚠ IN THE SCHEMATIC

SCHEMATIC DIAGRAM
MODEL NO. SG-3800P/C

505 529 530	303 223 237 224 238 239 509 507 513 511 510 508 515 512 514 717 516	304 240 716	309	517 518	305 306 311	308 310 519 521 523 520 522 524	307	226	225 908	907	227 228 229 905 701 906 702	703 704	230 231 705 707 706 708	709 711 712 710	605 606	607 609 613 715 714	611 615 617	619	612 616 614 713 618	610 608	902	001 901	002	003 004 005 007	008	009 010
304 521 517 503 518 504	306 234 307 505 507 506 508	305 308 309 238 310 523 509 522 510	235	511 512	513 514	515 516	311 314	312 313 913	236	909 910	701 703 702 704	907 705 908 706	710	707 708 904 905	603 605 604 712	609 607 611 613 615 709 906	902 903	614 612 608 711	610 606			001 901	915	002	003 004 005 006 007 008	009 010 011 012
																					902 901	001				
501-1 501-2	SF4	SB12	SB1	SF1	S2	S701-2 S701-1	S1																			

CIRCUIT BOARD AND WIRING CONN

Q101

D	6.1V
G	0.2V
S	0V

Q102

C	9.7V
B	1.4V
E	0.7V

Q103

C	7.2V
B	2.4V
E	1.7V

Q201

C	8.1V
B	3.2V
E	2.5V

Q202

	C	B	E
AM	7.0V	0.47V	0.01V
FM	6.3V	0.53V	0.01V

Q301

	C	B	E
ST OUTO	2.1V	0V	0V
MONO	0V	0.7V	0V

IC201

PIN NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
AM	0.8V	0V	2.6V	5.9V	0.8V	0V	0.9V	8.0V	5.4V	1.5V	0.8V	8.1V	0.7V	1.5V	5.4V	0.7V
FM	0.8V	0V	2.4V	5.4V	2.5V	0V	1.1V	7.0V	0.8V	1.2V	0.8V	0.8V	0.5V	0.8V	0.8V	0.5V

IC301

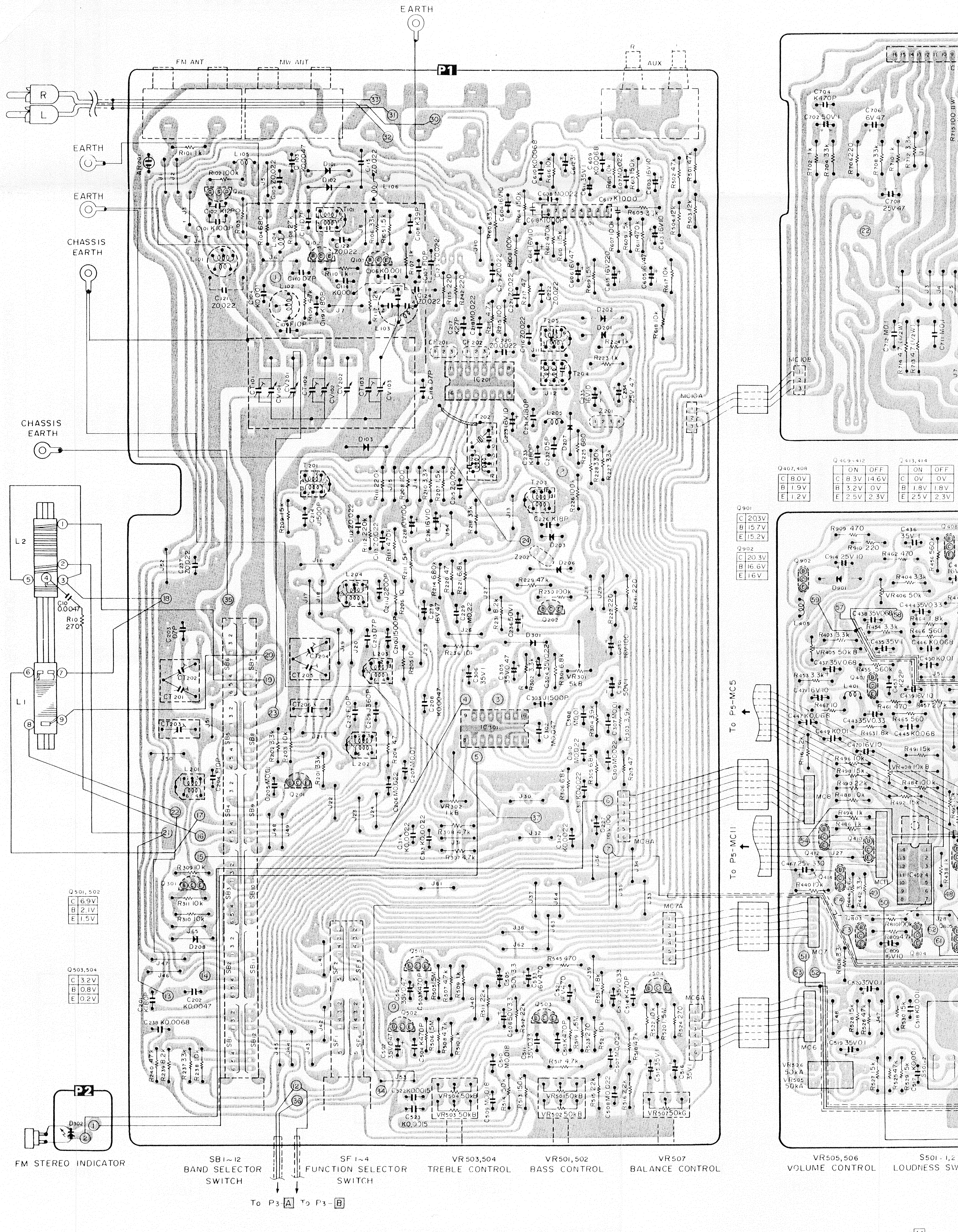
PIN NO		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
EYE	ON	7.1V	2.7V	4.9V	4.1V	4.1V	0.7V	0V	0.5V	5.9V	2.1V	2.1V	2.3V	2.1V	2.1V	2.1V	2.8V
	OFF	7.4V	2.8V	5.2V	4.4V	4.5V	1.1V	0V	0.5V	6.1V	2.1V	2.1V	2.4V	2.1V	2.1V	2.1V	2.8V

IC601

PIN NO	1	2	3	4	5	6	7	8
VOLT	1.3V	0.7V	4.0V	7.5V	0V	4.0V	0.7V	1.3V

IC701

PIN NO	1	2	3	4	5	6	7	8	9	10
VOLT	0V	0V	0V	-1.3V	-27.7V	0V	0V	26V	27.7V	0V


EARTH
P1
FM ANT
MW ANT
R
AUX
R
L
EARTH
EARTH
CHASSIS EARTH
CHASSIS EARTH
L2
L1
To P5-MC5
To P5-MC11
P2
D302
FM STEREO INDICATOR
SB1~12 BAND SELECTOR SWITCH
SF1~4 FUNCTION SELECTOR SWITCH
VR503,504 TREBLE CONTROL
VR501,502 BASS CONTROL
VR507 BALANCE CONTROL
VR505,506 VOLUME CONTROL
S501-1,2 LOUDNESS SW
To P3-A
To P3-B

Q407, 408

C	8.0V
B	1.9V
E	1.2V

Q409~412

	ON	OFF
C	8.3V	14.6V
B	3.2V	0V
E	2.5V	2.3V

Q413, 414

	ON	OFF
C	0V	0V
B	1.8V	1.8V
E	2.5V	2.3V

Q901

C	20.3V
B	15.7V
E	15.2V

Q902

C	20.3V
B	16.6V
E	16V

Q501, 502

C	6.9V
B	2.1V
E	1.5V

Q503, 504

C	3.2V
B	0.8V
E	0.2V

*This diagram might be modified without notice for further development of technology.

BOARD AND WIRING CONNECTION(SG-3800P/SG-3800C)

14	15	16
1.5V	5.4V	0.7V
0.8V	0.8V	0.5V

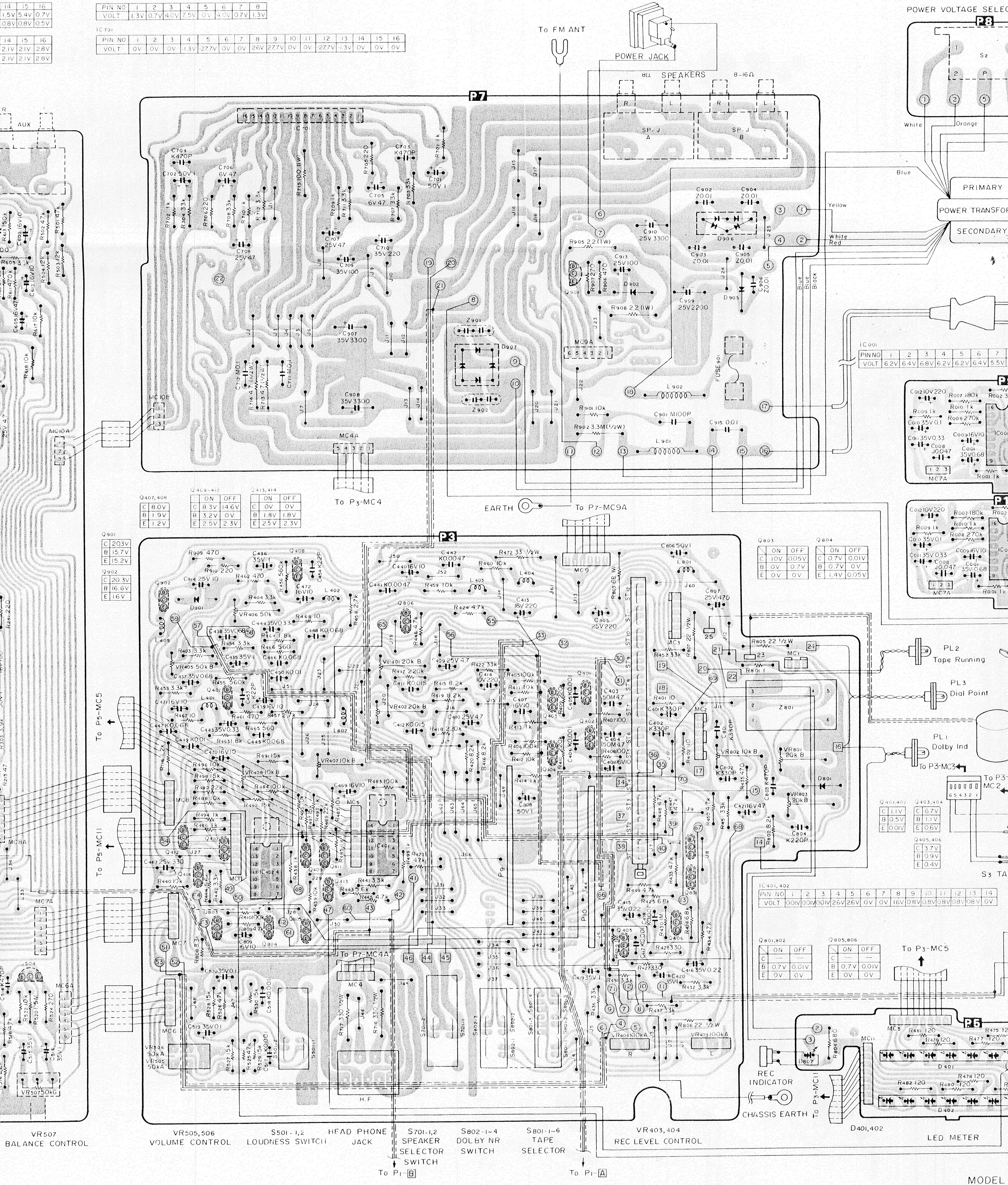
14	15	16
2.1V	2.1V	2.8V
2.1V	2.1V	2.8V

IC601

PIN NO	1	2	3	4	5	6	7	8
VOLT	1.3V	0.7V	4.0V	7.5V	0V	4.0V	0.7V	1.3V

IC701

PIN NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
VOLT	0V	0V	0V	-1.3V	-27.7V	0V	0V	26V	27.7V	0V	0V	-27.7V	-1.3V	0V	0V	0V


To FM ANT
POWER JACK
8Ω SPEAKERS 8-16Ω
POWER VOLTAGE SELEC
P8
P7
SP-J A
SP-J B
IC701
White
Orange
Blue
Yellow
White
Red
Blue
Blue
Black
PRIMARY
POWER TRANSFOR
SECONDARY
FUSE 901
MC9A
MC4A
To P3-MC4
EARTH
To P7-MC9A
MC10B
MC10A
AUX
P3
MC9
PL2 Tape Running
PL3 Dial Point
PL1 Dolby Ind
To P3-MC3
To P3-MC2
To P5-MC5
To P5-MC11
To P7-MC4A
To P3-MC5
To P3-MC11
Z801
MC7A
S3 TA
REC INDICATOR
CHASSIS EARTH
P6
D401
D402
VR507 BALANCE CONTROL
VR505,506 VOLUME CONTROL
S501-1,2 LOUDNESS SWITCH
HEAD PHONE JACK
S701-1,2 SPEAKER SELECTOR SWITCH
S802-1~4 DOLBY NR SWITCH
S801-1~6 TAPE SELECTOR
VR403,404 REC LEVEL CONTROL
D401,402
LED METER
To P1-B
To P1-A

Q407,408

C	8.0V
B	1.9V
E	1.2V

Q409~412

	ON	OFF
C	8.3V	14.6V
B	3.2V	0V
E	2.5V	2.3V

Q413,414

	ON	OFF
C	0V	0V
B	1.8V	1.8V
E	2.5V	2.3V

Q901

C	20.3V
B	15.7V
E	15.2V

Q902

C	20.3V
B	16.6V
E	16V

IC001

PIN NO	1	2	3	4	5	6	7
VOLT	6.2V	6.4V	6.8V	6.2V	6.2V	6.4V	5.5V

Q803

	ON	OFF
C	10V	0.05V
B	0V	0.7V
E	0V	0V

Q804

	ON	OFF
C	0.7V	0.01V
B	0.7V	0V
E	1.4V	0.05V

Q401,402

C	1.1V
B	0.5V
E	0.01V

Q403,404

C	6.7V
B	1.1V
E	0.6V

Q405,406

C	3.7V
B	0.9V
E	0.4V

IC401,402

PIN NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14
VOLT	0.01V	0.01V	0.01V	26V	26V	0V	0V	16V	0.8V	0.8V	0.8V	0.8V	0.8V	0V

Q801,802

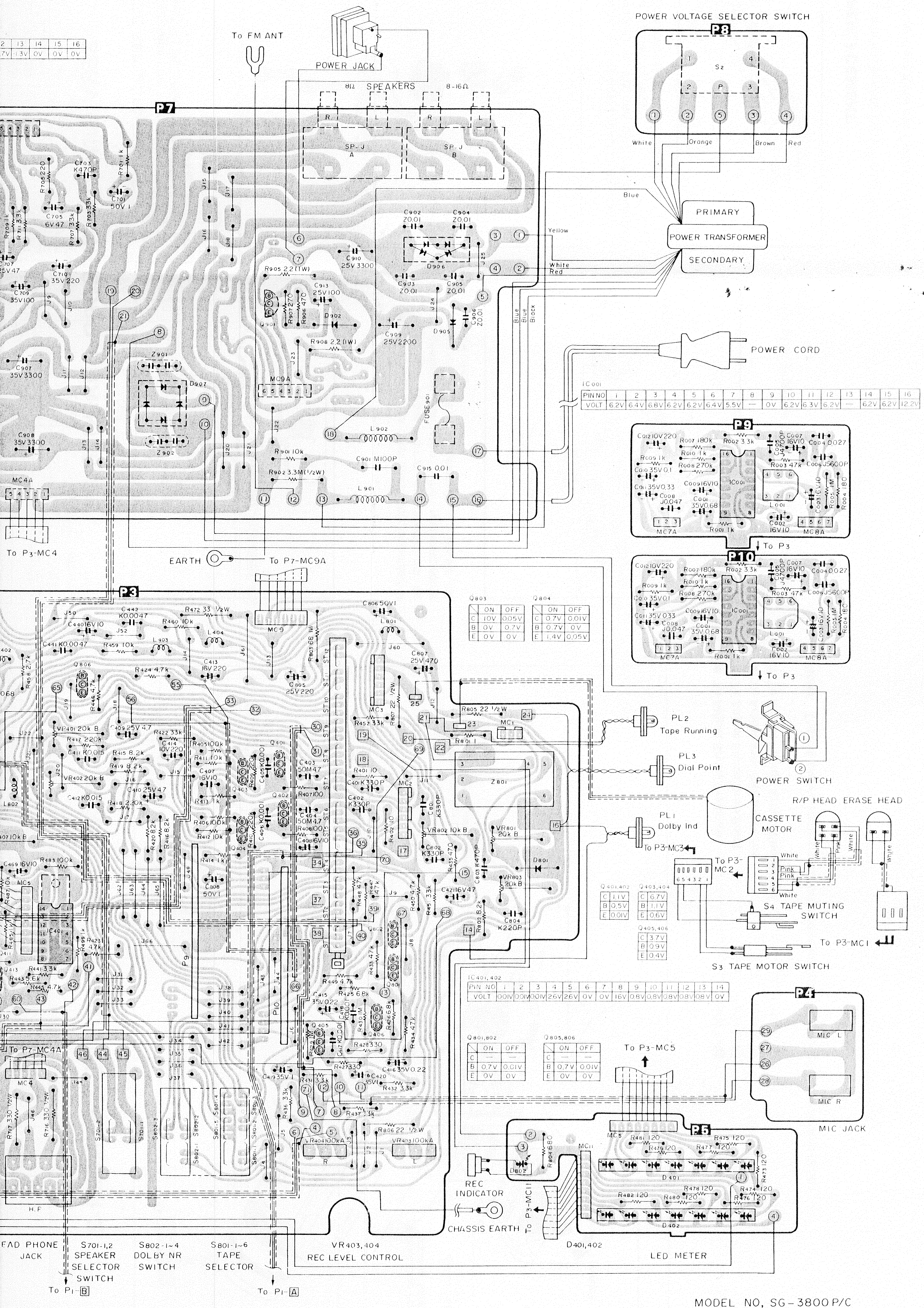
	ON	OFF
C	—	—
B	0.7V	0.01V
E	0V	0V

Q805,806

	ON	OFF
C	—	—
B	0.7V	0.01V
E	0V	0V

MODEL

TION (SG-3800P/SG-3800C)


POWER VOLTAGE SELECTOR SWITCH
P8
S2
White
Orange
Brown
Red
Blue
Yellow
White
Red
PRIMARY
POWER TRANSFORMER
SECONDARY
To FM ANT
POWER JACK
8Ω SPEAKERS 8-16Ω
SP-J A
SP-J B
P7
POWER CORD
FUSE 901
EARTH
To P7-MC9A
To P3-MC4
P9
P10
To P3
P3
PL2 Tape Running
PL3 Dial Point
POWER SWITCH
PL1 Dolby Ind
To P3-MC3
To P3-MC2
CASSETTE MOTOR
R/P HEAD ERASE HEAD
S4 TAPE MUTING SWITCH
To P3-MC1
S3 TAPE MOTOR SWITCH
P4
MIC L
MIC R
MIC JACK
To P3-MC5
P6
LED METER
D401,402
REC INDICATOR
CHASSIS EARTH
To P3-MC11
To P7-MC4A
H.F
HEAD PHONE JACK
S701-1,2 SPEAKER SELECTOR SWITCH
S802-1~4 DOLBY NR SWITCH
S801-1~6 TAPE SELECTOR
VR403,404 REC LEVEL CONTROL
To P1-B
To P1-A

IC001

PIN NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
VOLT	6.2V	6.4V	6.8V	6.2V	6.2V	6.4V	5.5V	—	0V	6.2V	6.3V	6.2V	—	6.2V	6.2V	12.2V

Q803

	ON	OFF
C	10V	0.05V
B	0V	0.7V
E	0V	0V

Q804

	ON	OFF
C	0.7V	0.01V
B	0.7V	0V
E	1.4V	0.05V

Q401,402

C	1.1V
B	0.5V
E	0.01V

Q403,404

C	6.7V
B	1.1V
E	0.6V

Q405,406

C	3.7V
B	0.9V
E	0.4V

IC401,402

PIN NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14
VOLT	0.01V	0.01V	0.01V	2.6V	2.6V	0V	0V	16V	0.8V	0.8V	0.8V	0.8V	0.8V	0V

Q801,802

	ON	OFF
C	—	—
B	0.7V	0.01V
E	0V	0V

Q805,806

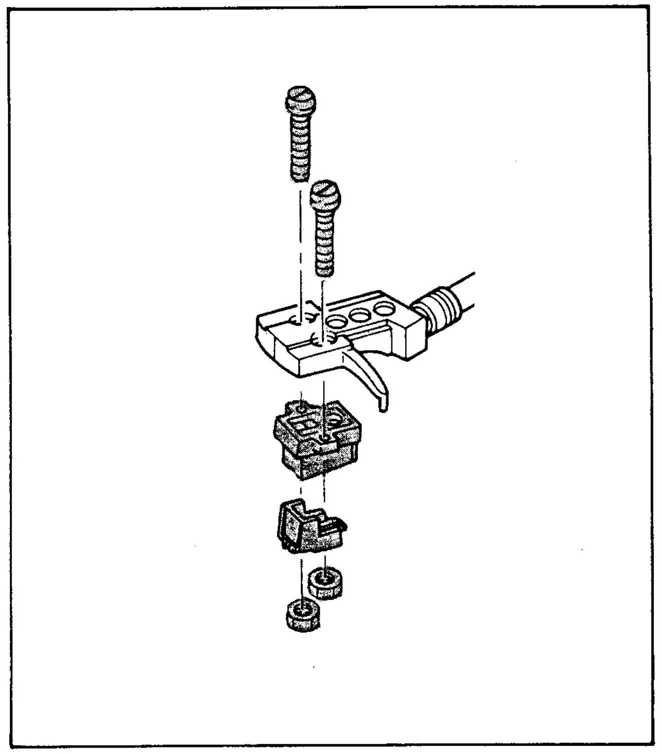
	ON	OFF
C	—	—
B	0.7V	0.01V
E	0V	0V

MODEL NO. SG-3800P/C

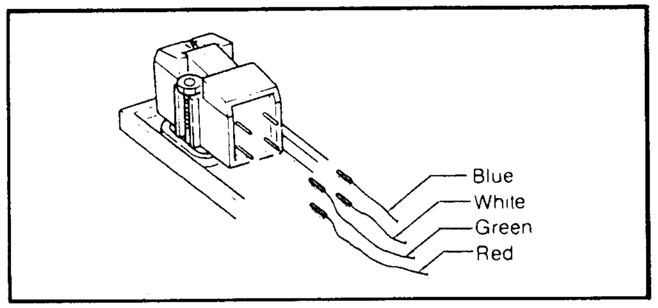
SERVICING THE RECORD CHANGER-1

CARTRIDGE REPLACEMENT

1. Remove cartridge from headshell by removing the two screws and disconnecting the lead wires from cartridge.

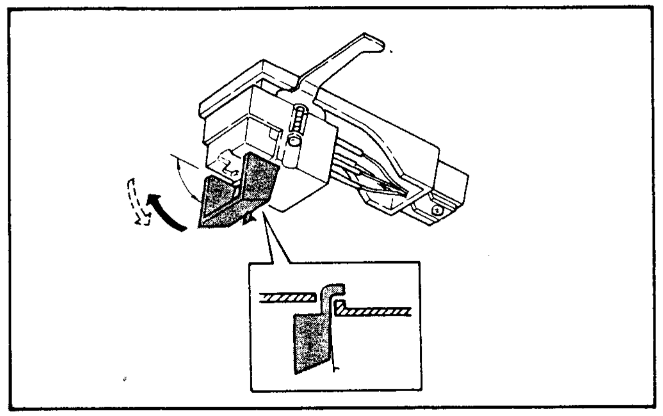


2. Using the two nuts attached, mount a new cartridge onto headshell so that the cartridge is perpendicular to the disc surface.
3. Connect the lead wires of identical colors.


Blue
White
Green
Red

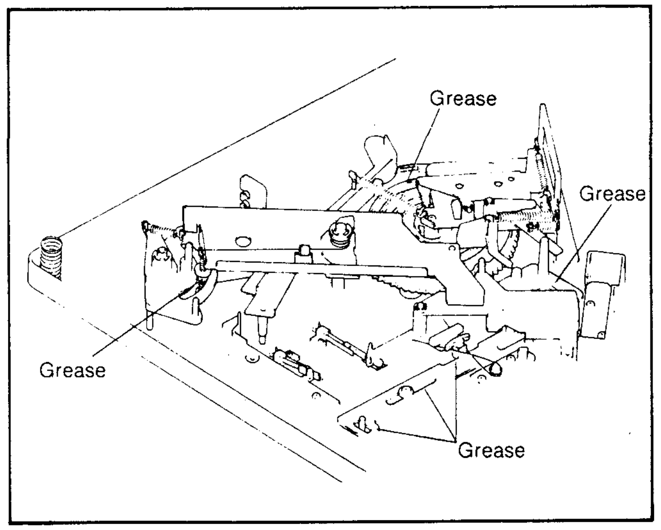
STYLUS REPLACEMENT

1. Lift pickup arm to a position that will make the stylus accessible.
2. Gently remove worn stylus and replace it with a new one.



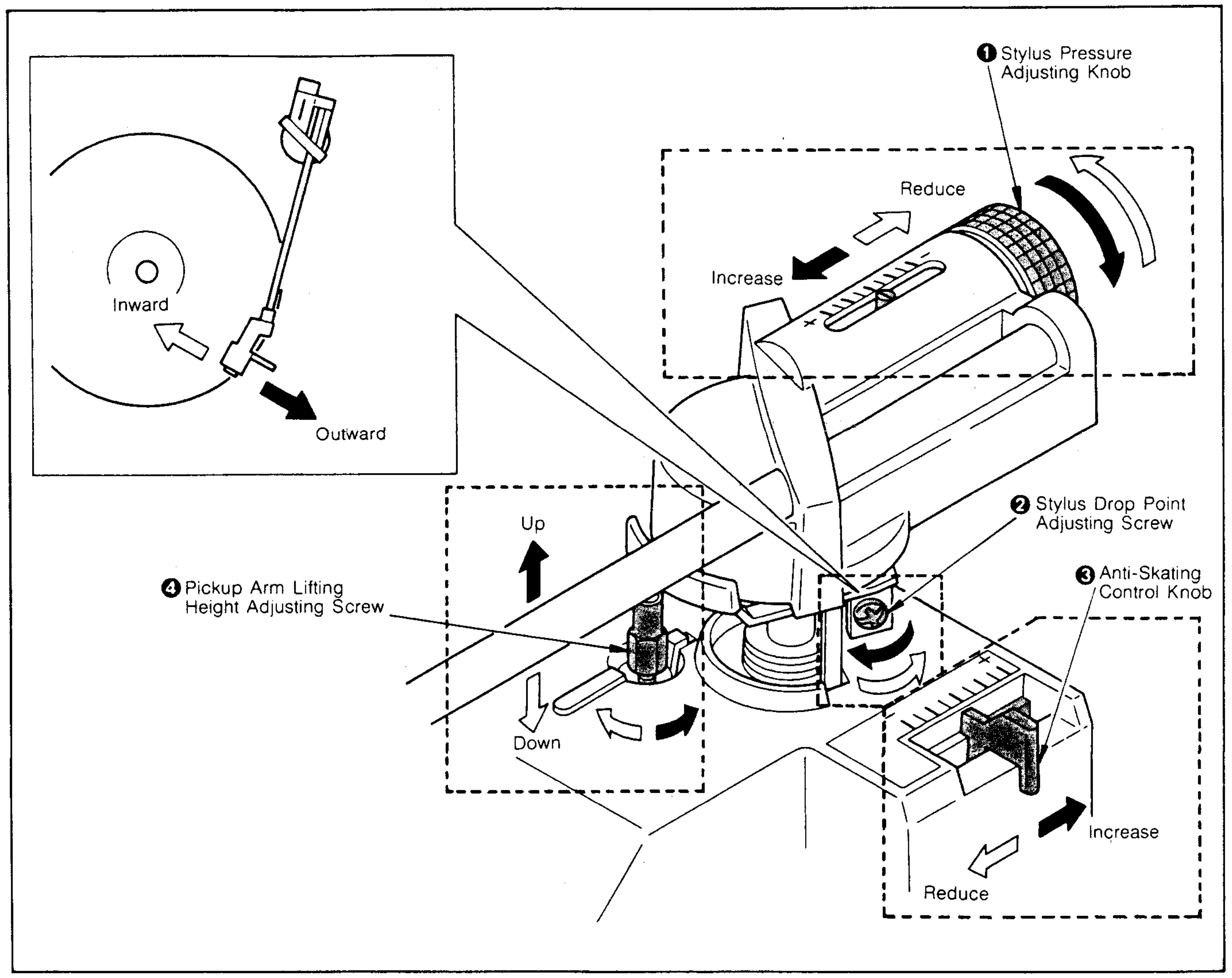
LUBRICATION

The record changer has been thoroughly lubricated at the factory and under normal use should not be required additional lubrication. When replacing some parts, however, it may be necessary to lubricate the parts as specified.


Grease
Grease
Grease
Grease

Note:
Do not allow grease to touch motor pulley, belt and turntable.

SERVICING THE RECORD CHANGER-2


❶ Stylus Pressure Adjusting Knob
Reduce
Increase
Inward
Outward
❷ Stylus Drop Point Adjusting Screw
❸ Anti-Skating Control Knob
❹ Pickup Arm Lifting Height Adjusting Screw
Up
Down
Increase
Reduce

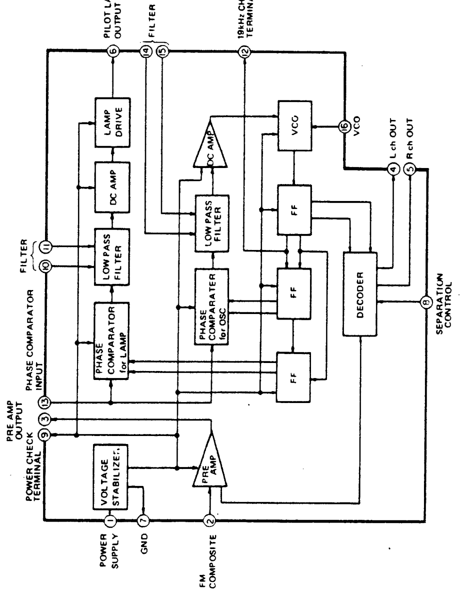
- **To Adjust Stylus Pressure**..Refer to ❶.
- **To Adjust Stylus Drop Point**......................................Refer to ❷.
- **To Adjust Anti-Skating Force**....................................Refer to ❸.
- **To Adjust Pickup Arm Lifting Height**..........................Refer to ❹.

Note: The anti-skating force is adjusted to correspond to the stylus pressure applied (2.5g).

IC BLOCK DIAGRAMS

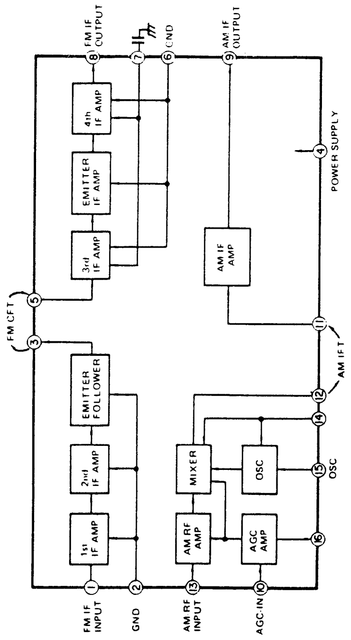
IC301

LA3350S


LAMP DRIVE
DC AMP
LOW PASS FILTER
PHASE COMPARATOR for LAMP
VOLTAGE STABILIZER
PRE AMP
DC AMP
LOW PASS FILTER
PHASE COMPARATOR for OSC
VCO
FF
DECODER
PILOT LAMP OUTPUT
FILTER
PHASE COMPARATOR INPUT
PRE AMP OUTPUT
POWER CHECK TERMINAL
POWER SUPPLY
GND
FM COMPOSITE
VCO
Lch OUT
Rch OUT
SEPARATION CONTROL

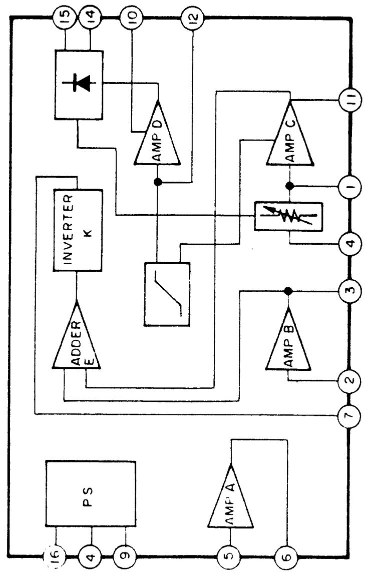
IC201

AN217P


4th IF AMP
EMITTER IF AMP
3rd IF AMP
AM IF AMP
EMITTER FOLLOWER
2nd IF AMP
1st IF AMP
MIXER
OSC
AM RF AMP
AGC AMP
FM IF OUTPUT
AM IF OUTPUT
POWER SUPPLY
FM CFT
AM IFT
OSC
FM IF INPUT
GND
AM RF INPUT
AGC IN

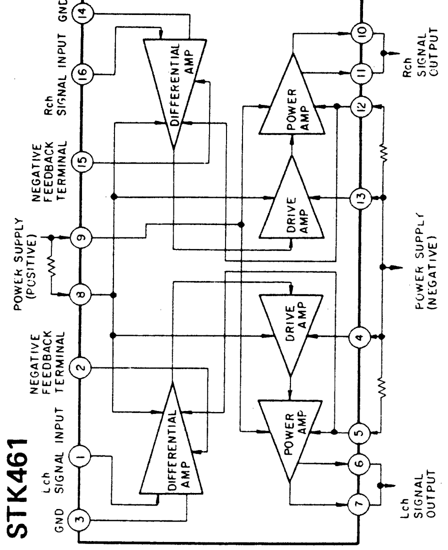
IC001

NE646BN


AMP D
AMP C
INVERTER K
ADDER E
AMP B
PS
AMP A

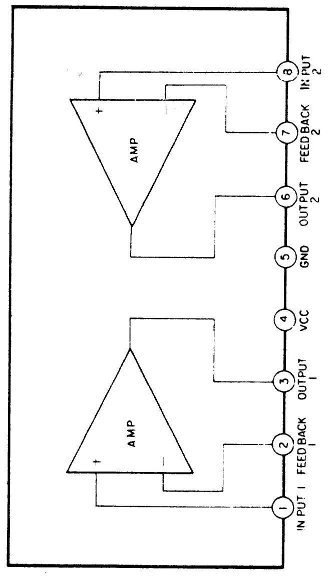
IC701

STK461


Rch SIGNAL INPUT
NEGATIVE FEEDBACK TERMINAL
POWER SUPPLY (POSITIVE)
NEGATIVE FEEDBACK TERMINAL
Lch SIGNAL INPUT
GND
DIFFERENTIAL AMP
POWER AMP
DRIVE AMP
DRIVE AMP
DIFFERENTIAL AMP
POWER AMP
Rch SIGNAL OUTPUT
POWER SUPPLY (NEGATIVE)
Lch SIGNAL OUTPUT

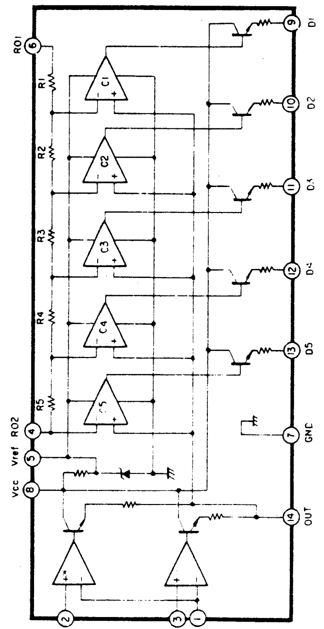
IC601

M51521L


AMP
AMP
INPUT 2
FEEDBACK 2
OUTPUT 2
GND
VCC
OUTPUT 1
FEEDBACK 1
INPUT 1

IC401, 402

LB1416


RO1
R1
R2
R3
R4
R5
RO2
Vref
Vcc
C1
C2
C3
C4
C5
D1
D2
D3
D4
D5
GND
OUT
IN1
IN2

REPLACEMENT PARTS LIST

NOTE:

1. Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.
2. Parts No. listed in this Parts List are of Service Parts.

Ref. No.	Part No.	Description	Per Set (pcs.)
TRANSISTORS			
Q101	2SK49	FM RF Amp	1
Q102,103	2SC1675-L	FM Mix, FM OSC	2
Q201,202	2SC828	AM Conv, Tuning Amp	2
Q301	2SC945	Switching	1
Q401,402	2SC1222	PB Amp	2
Q403,404	2SC1222	PB Amp	2
Q405	2SC1222	Mic Amp	1
Q406	2SC1222	Mic Amp	1
Q407,408	2SC945	Rec Amp	2
Q409,410	2SC1684	LED Drived Amp	2
Q411,412	2SC1684	LED Drived Amp	2
Q413,414	2SA564	LED Drived Amp	2
Q501,502	2SC1222	1st AF Amp	2
Q503,504	2SC1222	2nd AF Amp	2
Q801,802	2SC828	Muting	2
Q803	2SC828	Muting	1
Q804	2SA564	Muting	1
Q805,806	2SC828	Muting	2
Q901,902	2SD471	Stabilizer	2
INTEGRATED CIRCUITS			
IC001 (L,R)	NE646BN	Dolby NR	2
IC201	AN217P	FM, AM IF Amp	1
IC301	LA3350S	FM MPX	1
IC401,402	LB1416	LED Drived Amp	2
IC601	M51521L	Phono EQ Amp	1
IC701	STK461	Power Amp	1
DIODES			
D101,102	MA150	FM AGC	2
D103	SD113	FM AFC	1
D201,202	2OA90	FM Det	2
D203	2OA90	AM Det	1
D206	2OA90	AM Rect	1
D207	MA27A2	AOC	1
D208	MA150	Switching	1
D301	MA150	Switching	1
D302	LN217RP	FM Stereo Indicator	1
D401,402	LN07202P	LED, Meter	2
D801	RD4R3EB	AOC	1
D802	LN217RP	Rec Indicator	1

Ref. No.	Part No.	Description	Per Set (pcs.)
D901	MA1160	Stabilizer	1
D902	MA1150	Stabilizer	1
D905	SM112	Rect	1
D906	SIRBA10	Rect	1
D907	S4VB10	Rect	1
LAMPS AND FUSES			
PL1,2 ⚠	XAMR53X500	Lamp	2
PL3 ⚠	XAMR53X500	Lamp	1
F901 ⚠	XBA2C20TR0	Fuse	1
AR201	XANR2T20T	Arrester	1
COILS AND TRANSFORMERS			
L001 (L,R)	SLM9Z10-M	Filter Coil	2
L1,2	SLF5F52-O	Ferrite ANT Coil	1
L101	SLA4N2-O	ANT Coil, FM	1
L102	SLD4N22-M	Coll Coil, FM	1
L103	SLO4P12-2P	OSC Coil, FM	1
L104,105	RLQY15G5-O	IF Trap Coil	2
L106	RLQY15G5-O	IF Trap Coil	1
L201	SLA3M4-M	ANT Coil, SW2	1
L202	SLO2M4-M	OSC Coil, MW	1
L203	RLO3M18-M	OSC Coil, SW1	1
L204	RLO3M4-M	OSC Coil, SW2	1
L205	SLQX250-Y	RFC Coil	1
L401,402	SLQU222-2Y	Choke Coil	2
L403,404	SLQV393-4M	Choke Coil	2
L405	SLQU270-2K	Choke Coil	1
L801 802	SLQU270-2K	Choke Coil	1
L802	SLQU270-2K	Choke Coil	1
L901,902 ⚠	SLQY35S-2S	RFC Coil	2
T1	SLT5U16-W	Power Transformer	1
T101	RLI4M101-M	IFT, FM 1st	1
T201	SLI2M102	IFT, AM 1st	1
T202	RLI7V102-M	AM CFT	1
T203	RLI2M402-M	IFT, AM 3rd	1
T204	RLI4M501-M	FM Disc	1
T205	RLI4M502-M	FM Disc	1
CF201,202	SVF107MA5V	FM CFT	2
COMPONENT COMBINATIONS			
Z201	EXA5DL04C	C-R	1
Z202	EXAF203Z471	C-R	1
Z901,902	EXRFS203Z	C-C	2

REPLACEMENT PARTS LIST

Ref. No.	Part No.	Description	Per Set (pcs.)
SWITCHES			
S1 ⚠	ESL2174T	Power	1
S2 ⚠	SSP28-1	Voltage Selector	1
S501-1 ~ 2	ESL36208	Loudness	1
S701-1 ~ 2	SSL48	Speaker	1
S801-1 ~ 6 802-1 ~ 4	ESL36251	Tape Selector, Dolby	1
SB1 ~ 12	SSR104	Band	1
SF1 ~ 4	SSR118	Function	1
ST1 ~ 12	ESD81557	Rec/Play	1
VARIABLE RESISTORS			
VR301	EVTS3MA00B53	Preset 5kΩB	1
VR302	EVLS3AA00B13	Preset 1kΩ B	1
VR401,402	EVLS3AA0024	Preset 20kΩ B	2
VR403,404	EVHKPA090A15	Rec 100kΩ A	2
VR405,406	EVLS3AA00B53	Preset 50kΩ B	2
VR407,408	EVLS3AA00B14	Preset 10kΩ B	2
VR501,502	EWK9HA063A54	Bass Tone 50kΩ A	1
VR503,504	EWK9HA063A54	Treble Tone 50kΩ A	1
VR505,506	EWKKAA063A54	Volume 50kΩ A	1
VR507	EVH1UA528G54	Balance 50kΩ G	1
VR801	EVTS3MA00B24	Preset 20kΩ B	1
VR802	EVLS3AA00B14	Preset 10kΩ B	1
VR803	EVTS3MA00B24	Preset 20kΩ B	1
VARIABLE CAPACITORS			
CT201,202	SCVCTY211D31	Trimmer	1
CT203	RCVCTY12B218	Trimmer	1
CT204,205	SCVCTY211D31	Trimmer	1
CT206	RCVCTY12B218	Trimmer	1
CV101,102, 103,201, 202	ECV5MD34X75G	Tuning Capacitor with Trimmer (CT101,102,103)	1
PACKINGS			
1	SPN3912	Carton Box (SG-3800)	1
	SPN3890	Carton Box (SG-3800P)	1
	SPN3882	Carton Box (SG-3800C)	1
2	SPN3580-3	Pad, Right (SG-3800)	1
	SPN3580-2	Pad, Right (SG-3800P, SG-3800C)	1
3	SPN3582-3	Pad, Left (SG-3800)	1
	SPN3582-2	Pad, Left (SG-3800P, SG-3800C)	1
4	SPN3592	Right Pad, Dust Cover (SG-3800P)	1
	SPN3584	Right Pad, Dust Cover (SG-3800C)	1
5	SPN3594-1	Left Pad, Dust Cover (SG-3800P)	1
	SPN3586	Left Pad, Dust Cover (SG-3800C)	1
6	SPN3914	Pad, Upper (SG-3800)	1
	SPN3650	Pad, Upper (SG-3800P)	1
7	XZB83X80C05	Set Cover	1
			1
OSCILLATOR BLOCK			
Z801	SLO9Z22-1K	Oscillator Block	1
OTHERS			
1	SQX50114	Instruction Book (SG-3800)	1
	SQX50112	Instruction Book (SG-3800P, SG-3800C)	1
2	SPT1HCZNRAZ1	Demonstration Tape	1
3	AD1600	Adhesives	1
4	SZOGM0380	Grease (for Player)	1
5	OL340	Silicone Oil (for Transistor and Power IC)	1
6 ⚠	SJP9210	Plug, Adapter A	1
7 ⚠	SJP9212	Plug, Adapter B	1
8	WM2201N	Microphone	2
9	SJM2	Mic Stand	2

REPLACEMENT PARTS LIST

Numbering System of Resistor

Type	Wattage	Tolerance	Value
Three Letters	One or Two Letters	Two or Three Letters	Three or Four Letters

Example:

E R D 2 5 T J 1 0 1

Resistor Type	Tolerance
ERD: Carbon Film ERC: Solid ERX: Metal Film ERG: Metal Oxide Film ERO: High Stability Metal Film ERF: Flameproof Wire-Wound Bath-Tube ERQ: Fuse Type Metal Film	F: ±1% J: ±5% K: ±10%

Ref. No.	Part No.	Description		Per Set (pcs.)
RESISTORS				
R001 (L,R)	ERD25TJ102	1kΩ	1/4W	2
R002 (L,R)	ERD25TJ332	3.3kΩ	1/4W	2
R003 (L,R)	ERD25TJ473	47kΩ	1/4W	2
R004 (L,R)	ERD25TJ181	180Ω	1/4W	2
R005 (L,R)	ERD25TJ105	1MΩ	1/4W	2
R007 (L,R)	ERD25TJ184	180kΩ	1/4W	2
R008 (L,R)	ERD25TJ274	270kΩ	1/4W	2
R009 (L,R)	ERD25TJ102	1kΩ	1/4W	2
R010 (L,R)	ERD25TJ102	1kΩ	1/4W	2
R10	ERD25TJ271	270Ω	1/4W	1
R101	ERD25TJ102	1kΩ	1/4W	1
R102	ERD25TJ104	100kΩ	1/4W	1
R103	ERD25TJ100	10Ω	1/4W	1
R104	ERD25TJ681	680Ω	1/4W	1
R105	ERD25TJ152	1.5kΩ	1/4W	1
R106	ERD25TJ333	33kΩ	1/4W	1
R107	ERD25TJ102	1KΩ	1/4W	1
R108	ERD25TJ273	27kΩ	1/4W	1
R109	ERD25TJ472	4.7kΩ	1/4W	1
R110	ERD25TJ102	1kΩ	1/4W	1
R111,112	ERD25TJ224	220kΩ	1/4W	2
R113	ERD25TJ474	470kΩ	1/4W	1
R115	ERD25TJ221	220Ω	1/4W	1
R116	ERD25TJ122	1.2kΩ	1/4W	1
R117	ERD25TJ123	12kΩ	1/4W	1
R201	ERD25TJ333	33kΩ	1/4W	1
R202	ERD25TJ332	3.3kΩ	1/4W	1
R203	ERD25TJ103	10kΩ	1/4W	1
R204	ERD25TJ470	47Ω	1/4W	1
R205,206	ERD25TJ100	10Ω	1/4W	2
R207	ERD25TJ152	1.5kΩ	1/4W	1
R208	ERD25TJ101	100Ω	1/4W	1
R209	ERD25TJ153	15kΩ	1/4W	1
R210	ERD25TJ332	3.3kΩ	1/4W	1
R211	ERD25TJ152	1.5kΩ	1/4W	1
R213	ERD25TJ470	47Ω	1/4W	1
R214	ERD25TJ684	680kΩ	1/4W	1
R215	ERD25TJ101	100Ω	1/4W	1
R216	ERD25TJ472	4.7kΩ	1/4W	1
R217	ERD25TJ470	47Ω	1/4W	1
R218	ERD25TJ333	33kΩ	1/4W	1
R220	ERD25TJ470	47Ω	1/4W	1
R221	ERD25TJ682	6.8kΩ	1/4W	1
R222	ERD25TJ221	220Ω	1/4W	1
R223,224	ERD25TJ102	1kΩ	1/4W	2
R225	ERD25TJ681	680Ω	1/4W	1
R226	ERD25TJ104	100kΩ	1/4W	1
R227	ERD25TJ333	33kΩ	1/4W	1
R228	ERD25TJ334	330kΩ	1/4W	1
R229	ERD25TJ473	47kΩ	1/4W	1
R230	ERD25TJ104	100kΩ	1/4W	1
R231	ERD25TJ822	8.2kΩ	1/4W	1
R236	ERD25TJ103	10kΩ	1/4W	1
R237	ERD25TJ333	33kΩ	1/4W	1
R238	ERD25TJ103	10kΩ	1/4W	1
R239	ERD25TJ822	8.2kΩ	1/4W	1
R240	ERD25TJ473	47kΩ	1/4W	1
R241	ERD25TJ221	220Ω	1/4W	1
R242	ERD25TJ221	220Ω	1/4W	1
R301	ERD25TJ682	6.8kΩ	1/4W	1
R302	ERD25TJ332	3.3kΩ	1/4W	1
R303,304	ERD25TJ392	3.9kΩ	1/4W	2
R305,306	ERD25TJ682	6.8kΩ	1/4W	2
R307,308	ERD25TJ472	4.7kΩ	1/4W	2
R309,310	ERD25TJ103	10kΩ	1/4W	2
R311	ERD25TJ103	10kΩ	1/4W	1
R401,402	ERD25TJ100	10Ω	1/4W	2
R403,404	ERD25TJ332	3.3kΩ	1/4W	2
R405,406	ERD25TJ104	100kΩ	1/4W	2
R407,408	ERD25TJ101	100Ω	1/4W	2
R409,410	ERD25TJ224	220kΩ	1/4W	2
R411,412	ERD25TJ103	10kΩ	1/4W	2
R413,414	ERD25TJ102	1kΩ	1/4W	2
R415,416	ERD25TJ822	8.2kΩ	1/4W	2
R417,418	ERD25TJ224	220kΩ	1/4W	2
R419,420	ERD25TJ822	8.2kΩ	1/4W	2
R422	ERD25TJ333	33kΩ	1/4W	1
R423,424	ERD25TJ472	4.7kΩ	1/4W	2
R425,426	ERD25TJ682	6.8kΩ	1/4W	2
R427,428	ERD25TJ331	330Ω	1/4W	2
R429,430	ERD25TJ105	1MΩ	1/4W	2
R431,432	ERD25TJ332	3.3kΩ	1/4W	2
R433,434	ERD25TJ473	47kΩ	1/4W	2
R435	ERD25TJ471	470Ω	1/4W	1
R436	ERD25TJ333	33kΩ	1/4W	1
R437	ERD25TJ333	33kΩ	1/4W	1
R438	ERD25TJ102	1kΩ	1/4W	1

REPLACEMENT PARTS LIST

Ref. No.	Part No.	Description	Per Set (pcs.)
R439,R440	ERD25TJ103	10kΩ 1/4W	2
R441,442	ERD25TJ332	3.3kΩ 1/4W	2
R443,444	ERD25TJ562	5.6kΩ 1/4W	2
R445,446	ERD25TJ472	4.7kΩ 1/4W	2
R447	ERD25TJ473	47kΩ 1/4W	1
R448	ERD25TJ473	47kΩ 1/4W	1
R449,450	ERD25TJ472	4.7kΩ 1/4W	2
R451,452	ERD25TJ333	33kΩ 1/4W	2
R453,454	ERD25TJ332	3.3kΩ 1/4W	2
R455,456	ERD25TJ564	560kΩ 1/4W	2
R457,458	ERD25TJ272	2.7kΩ 1/4W	2
R459	ERD25TJ103	10kΩ 1/4W	1
R460	ERD25TJ103	10kΩ 1/4W	1
R461	ERD25TJ471	470Ω 1/4W	1
R462	ERD25TJ471	470Ω 1/4W	1
R463,464	ERD25TJ182	1.8kΩ 1/4W	2
R465,466	ERD25TJ561	560Ω 1/4W	2
R467,468	ERD25TJ100	10Ω 1/4W	2
R472	ERD12FJ330	33Ω 1/2W	1
R473,474	ERD25TJ121	120Ω 1/4W	2
R475,476	ERD25TJ121	120Ω 1/4W	2
R477,478	ERD25TJ121	120Ω 1/4W	2
R479,480	ERD25TJ121	120Ω 1/4W	2
R481,482	ERD25TJ121	120Ω 1/4W	2
R483,484	ERD25TJ104	100kΩ 1/4W	2
R485,486	ERD25TJ102	1kΩ 1/4W	2
R487,488	ERD25TJ103	10kΩ 1/4W	2
R489,490	ERD25TJ223	22kΩ 1/4W	2
R491,492	ERD25TJ153	15kΩ 1/4W	2
R493,494	ERD25TJ102	1kΩ 1/4W	2
R495,496	ERD25TJ103	10kΩ 1/4W	2
R497,498	ERD25TJ153	15kΩ 1/4W	2
R499	ERD25TJ102	1kΩ 1/4W	1
R501,502	ERD25TJ473	47kΩ 1/4W	2
R503,504	ERD25TJ123	12kΩ 1/4W	2
R505,506	ERD25TJ155	1.5MΩ 1/4W	2
R507,508	ERD25TJ472	4.7kΩ 1/4W	2
R509,510	ERD25TJ102	1kΩ 1/4W	2
R511,512	ERD25TJ223	22kΩ 1/4W	2
R513,514	ERD25TJ154	150kΩ 1/4W	2
R515,516	ERD25TJ222	2.2kΩ 1/4W	2
R517,518	ERD25TJ472	4.7kΩ 1/4W	2
R519,520	ERD25TJ155	1.5MΩ 1/4W	2
R521,522	ERD25TJ103	10kΩ 1/4W	2
R523,524	ERD25TJ271	270Ω 1/4W	2
R525,526	ERD25TJ473	47kΩ 1/4W	2
R527,528	ERD25TJ153	15kΩ 1/4W	2
R529,530	ERD25TJ153	15kΩ 1/4W	2
R531	ERD25TJ182	1.8kΩ 1/4W	1
R545	ERD25TJ471	470Ω 1/4W	1
R603,604	ERC14GK475	4.5MΩ 1/4W (SG-3800)	2
R605,606	ERD25TJ333	33kΩ 1/4W	2
R607,608	ERD25TJ104	100kΩ 1/4W	2
R609,610	ERD25TJ152	1.5kΩ 1/4W	2
R611,612	ERD25TJ474	470kΩ 1/4W	2
R613,614	ERD25TJ154	150kΩ 1/4W	2
R615,616	ERD25TJ103	10kΩ 1/4W	2
R617,618	ERD25TJ103	10kΩ 1/4W	2
R619	ERD25TJ152	1.5kΩ 1/4W	1
R620,621	ERD25TJ155	1.5MΩ 1/4W (SG-3800)	2
R701,702	ERD25TJ102	1kΩ 1/4W	2
R703,704	ERD25TJ333	33kΩ 1/4W	2
R705,706	ERD25TJ221	220Ω 1/4W	2
R707,708	ERD25TJ333	33kΩ 1/4W	2
R709,710	ERD25TJ102	1kΩ 1/4W	2
R711,712	ERD25TJ332	3.3kΩ 1/4W	2
R713,714	ERD50TJ4R7	4.7Ω 1/2W	2
R715 ⚠	ERG1ANJ101	100Ω 1W	1
R716,717	ERD50TJ331	330Ω 1/2W	2
R801	ERD25TJ1R0	1Ω 1/4W	1
R802	ERD25TJ822	8.2kΩ 1/2W	1
R803 ⚠	ERG1ANJ680	68Ω 1W	1
R804	ERD25TJ681	680Ω 1/4W	1
R805 ⚠	ERD12FJ220	22Ω 1/2W	1
R806,807 ⚠	ERD12FJ220	22Ω 1/2W	2
R808	ERD25TJ332	3.3kΩ 1/4W	1
R809	ERD25TJ472	4.7kΩ 1/4W	1
R810	ERD25TJ104	100kΩ 1/4W	1
R901	ERD25TJ103	10kΩ 1/4W	1
R902 ⚠	ERC12ZGK335	3.3MΩ 1/2W	1
R905 ⚠	ERX1ANJ2R2	2.2Ω 1W	1
R906	ERD25TJ471	470Ω 1/4W	1
R907	ERD25TJ271	270Ω 1/4W	1
R908 ⚠	ERX1ANJ2R2	2.2Ω 1W	1
R909	ERD25TJ471	470Ω 1/4W	1
R910	ERD25TJ221	220Ω 1/4W	1

REPLACEMENT PARTS LIST

Numbering System of Capacitor

Type	Voltage	Value	Tolerance
Four Letters	One or Two Letters	Two to Five Letters	One or Two Letters

Example:

E C K D   1 H   3 3 3   M D

Capacitor Type	Tolerance
ECCD: Temperature Compensating Ceramic	C: ±0.25pF
ECKD: High Dielectric Constant Ceramic	D: ±0.5pF
ECQM: Polyester	F: ±1pF
ECQS: Polystyrene Film	J: ±5%
ECFD: Semiconductor Ceramic	K: ±10%
ECEA: Electrolytic	M: ±20%
ECEB: Electrolytic	P: +100, −0%
ECET: Electrolytic	Z: +80, −20%
ECSF: Tantalum	

Ref. No.	Part No.	Description		Per Set (pcs.)
		CAPACITORS		
C001 (L,R)	ECSF35ER68T	0.68μF	35V	2
C002 (L,R)	ECEA1HS100	10μF	50V	2
C003 (L,R)	ECEA1HS100	10μF	50V	2
C004 (L,R)	ECQM1H273JZ	0.027μF	50V	2
C005 (L,R)	ECQS1472JZ	470pF	125V	2
C006 (L,R)	ECQS1562JZ	560pF	125V	2
C007 (L,R)	ECEA1HS100	10μF	50V	2
C008 (L,R)	ECQM1H473JZ	0.047μF	50V	2
C009 (L,R)	ECEA1HS100	10μF	50V	2
C010 (L,R)	ECSF35ER1T	0.1μF	35V	2
C011 (L,R)	ECSF35ER33T	0.33μF	35V	2
C012 (L,R)	ECEA1AS221	220μF	10V	2
C10	ECKD1H472KB	0.0047μF	50V	1
C101	ECCD1H101K	100pF	50V	1
C102	ECCD1H120K	12pF	50V	1
C103	ECKD1H472KB	0.0047μF	50V	1
C104	ECKD1H102KB	0.001μF	50V	1
C105	ECKD1H223ZF	0.022μF	50V	1
C106	ECKD1H102KB	0.001μF	50V	1
C107	ECCD1H100F	10pF	50V	1
C108	ECCD1H390K	39pF	50V	1
C109	ECCD1H100F	10pF	50V	1
C110,111	ECCD1H070D	7pF	50V	2
C112,113	ECKD1H223ZF	0.022μF	50V	2
C114	ECKD1H102KB	0.001μF	50V	1
C115,116	ECKD1H223ZF	0.022μF	50V	2
C118	ECCD1H070D	7pF	50V	1
C119	ECKD1H181KB	180pF	50V	1
C121	ECKD1H223ZF	0.022μF	50V	1
C122	ECKD1H223ZF	0.022μF	50V	1
C123,124	ECKD1H223ZF	0.022μF	50V	2

Ref. No.	Part No.	Description		Per Set (pcs.)
C201	ECKD1H181KB	180pF	50V	1
C202	ECKD1H472KB	0.0047μF	50V	1
C203	ECCD1H070D	7pF	50V	1
C204	ECCD1H100F	10pF	50V	1
C205	ECFD1E103MD	0.01μF	25V	1
C206	ECFD1E223MD	0.022μF	25V	1
C207	ECFD1E103MD	0.01μF	25V	1
C208	ECKD1H472KB	0.0047μF	50V	1
C209	ECQS1361JZ	360pF	125V	1
C210	ECQS1152JZ	1500pF	125V	1
C211	ECQS1222JZ	2200pF	125V	1
C212	ECCD1H100F	10pF	50V	1
C213	ECCD1H070D	7pF	50V	1
C214	ECQS1152JZ	1500pF	125V	1
C215	ECKD1H223ZF	0.022μF	50V	1
C216	ECEA1HS100	10μF	50V	1
C217	ECCD1H270K	27pF	50V	1
C218	ECFD1E223MD	0.022μF	25V	1
C219,220	ECKD1H223ZF	0.022μF	50V	2
C221,222	ECKD1H223ZF	0.022μF	50V	2
C223	ECEA1HS100	10μF	50V	1
C226	ECCD1H180K	18pF	50V	1
C227	ECEA1ES101	100μF	25V	1
C228	ECEA1AS101	100μF	10V	1
C229	ECQM1H224MZ	0.22μF	50V	1
C230	ECEA1ES101	100μF	25V	1
C231	ECKD1H181KB	180pF	50V	1
C232	ECCD1H050D	5pF	50V	1
C233	ECKD1H181KB	180pF	50V	1
C234	ECEA1JS4R7	4.7μF	63V	1
C235	ECEA1HS100	10μF	50V	1
C236	ECEA2AS010	1μF	100V	1
C237	ECKD1H223ZF	0.022μF	50V	1
C238	ECKD1H682KB	0.0068μF	50V	1
C239	ECEA1ES470	47μF	25V	1
C301	ECEA2AS010	1μF	100V	1
C302	ECFD1E473MD	0.047μF	25V	1
C303	ECQS1152JZ	1500pF	125V	1
C304	ECSF35ER22T	0.22μF	35V	1
C305	ECSF35ER47T	0.47μF	35V	1
C306	ECEA1HN010S	1μF	35V	1
C307,308	ECFD1E103MD	0.01μF	25V	2
C309,310	ECFD1E223MD	0.022μF	25V	2
C311,312	ECKD1H222KB	0.0022μF	50V	2
C313,314	ECKD1H222KB	0.0022μF	50V	2
C401,402	ECKD1H331KB	330pF	50V	2
C403,404	ECEA50M4R7	4.7μF	50V	2
C405,406	ECKD1H102KB	0.001μF	50V	2
C407,408	ECEA1HS100	10μF	50V	2
C409,410	ECEA1JS4R7	4.7μF	63V	2
C411,412	ECQM1H153KZ	0.015μF	50V	2
C413	ECEA1CS221	220μF	16V	1
C414	ECEA1AS221	220μF	10V	1
C415,416	ECSE35ER22	0.22μF	35V	2

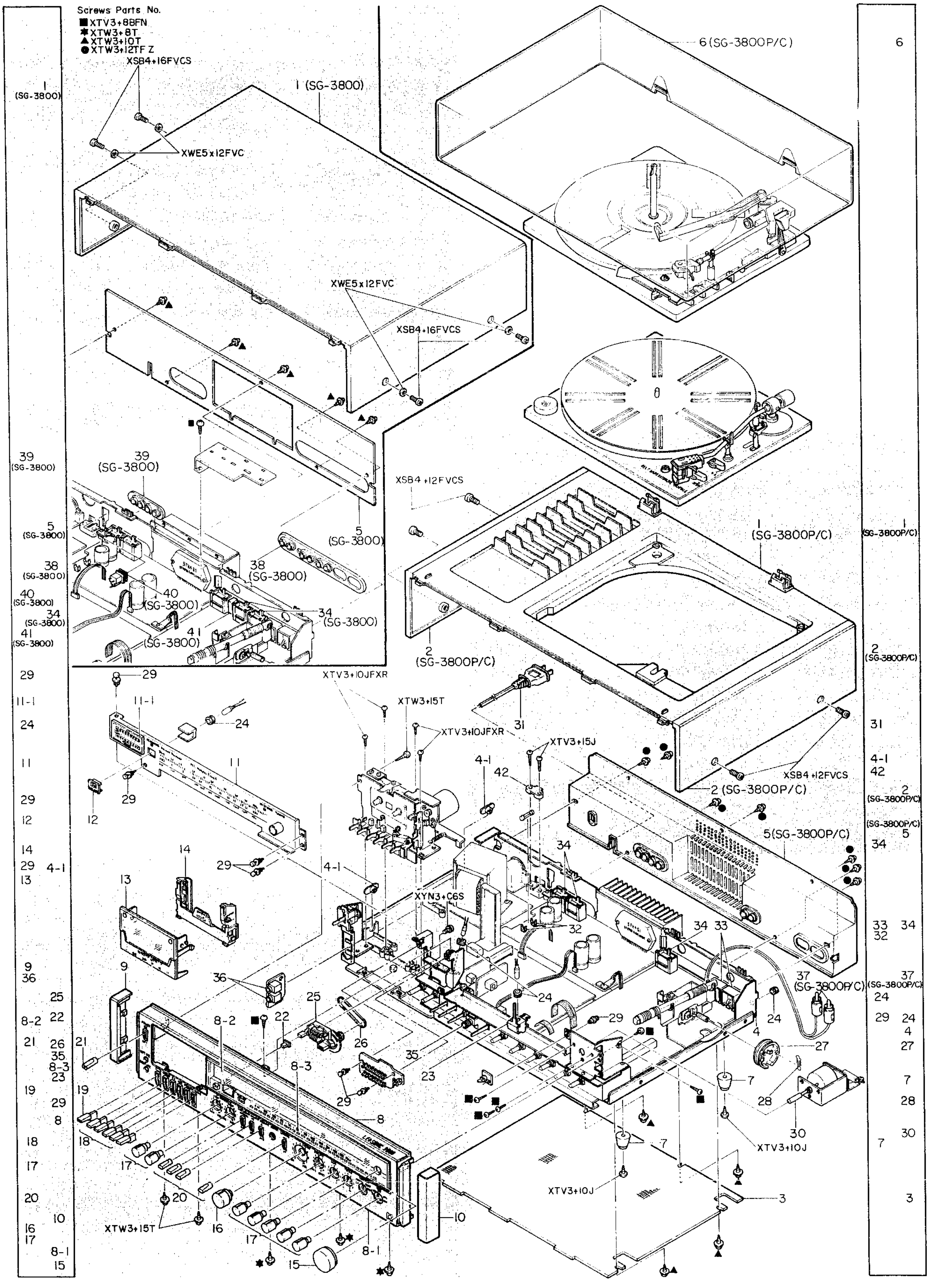
REPLACEMENT PARTS LIST

Ref. No.	Part No.	Description	Per Set (pcs.)
C417,418	ECKD1H102KB	0.001μF 50V	2
C419,420	ECSF35E1T	1μF 35V	2
C421	ECEA1ES470	47μF 25V	1
C435,436	ECSF35E1T	1μF 35V	2
C437,438	ECSF35ER68T	0.68μF 35V	2
C439,440	ECEA1HS100	10μF 50V	2
C441	ECKD1H472KB	0.0047μF 50V	1
C442	ECKD1H472KB	0.0047μF 50V	1
C443,444	ECSF35ER33T	0.33μF 35V	2
C445,446	ECQM1H683MZ	0.068μF 50V	2
C447,448	ECQM1H683MZ	0.068μF 50V	2
C449,450	ECQM1H104MZ	0.1μF 50V	2
C453,454	ECCD1H220K	22pF 50V	2
C467	ECEA1ES331	330μF 25V	1
C469,470	ECEA1HS100	10μF 50V	2
C471,472	ECEA1HS100	10μF 50V	2
C501,502	ECSF35ER47T	0.47μF 35V	2
C503,504	ECKD1H471KB	470pF 50V	2
C505,506	ECEA2AS3R3	3.3μF 100V	2
C507,508	ECFD1E223MD	0.022μF 25V	2
C509,510	ECFD1E183MD	0.018μF 25V	2
C511,512	ECSF35ER33	0.33μF 35V	2
C513,514	ECKD1H471KB	470pF 50V	2
C515,516	ECSF35E1T	1μF 35V	2
C517,518	ECKD1H102KB	0.001μF 50V	2
C519,520	ECSF35ER1T	0.1μF 35V	2
C521	ECEA1CS471	470μF 16V	1
C522,523	ECKD1H152KB	0.0015μF 50V	2
C533	ECEA1CS471	470μF 16V	1
C601,602	ECCD1H470K	47pF 50V (SG-3800)	2
C603,604	ECEA1HS100	10μF 50V	2
C605,606	ECEA1ES470	47μF 25V	2
C607,608	ECFD1E223MD	0.022μF 25V	2
C609,610	ECKD1H682KB	0.0068μF 50V	2
C611,612	ECSF35E1T	1μF 35V	2
C613,614	ECEA1HS100	10μF 50V	2
C615	ECEA1CS221	220μF 16V	1
C617,618	ECKD1H102KB	0.001μF 50V	2
C701,702	ECEA1AS010	1μF 100V	2
C703,704	ECKD1H471KB	470pF 50V	2
C705,706	ECEA1CS470	47μF 16V	2
C707,708	ECEA1ES470	47μF 25V	2
C709	ECEA1VS101	100μF 35V	1
C710	ECEA1VS221	220μF 35V	1
C711,712	ECQM1H104MZ	0.1μF 50V	2
C801,802	ECKD1H331KB	330pF 50V	2
C803	ECKD1H471KB	470pF 50V	1
C804	ECKD1H221KB	220pF 50V	1
C805	ECEA1ES221	220μF 25V	1
C806	ECEA2AS010	1μF 100V	1
C807	ECEA1ES471	470μF 25V	1
C808	ECEA2AS010	1μF 100V	1
C809	ECEA1HS100	10μF 50V	1
C901 ⚠	ECKDHS101MB	100pF 400V	1
C902,903	ECKD1H103ZF	0.01μF 50V	2
C904,905	ECKD1H103ZF	0.01μF 50V	2
C906	ECKD1H103ZF	0.01μF 50V	1
C907,908	ECET35R332	3300μF 35V	2
C909	ECET25R222	2200μF 25V	1
C910	ECET25R332	330μF 25V	1
C913	ECEA1ES101	100μF 25V	1
C914	ECEA1ES100	10μF 25V	1
C915 ⚠	ECKDHS103SE	0.01μF 400V	1

REPLACEMENT PARTS LIST OF CABINET AND CHASSIS

Ref. No.	Part No.	Description	Per Set (pcs.)
1	SKA3220	Cabinet A Ass'y (SG-3800)	1
	SYK1720	Cabinet A Ass'y (SG-3800P, SG-3800C)	1
2	SKE338	Side Board, Cabinet (SG-3800P, SG-3800C)	2
3	SYU412	Bottom Board Ass'y	1
4	SYK1716	Cabinet B Ass'y	1
4-1	(SNE456)	Nut, Side	(2)
5	SYK1718	Rear Cover Ass'y (SG-3800P)	1
	SYK1728	Rear Cover Ass'y (SG-3800C)	1
	SKU4321	Rear Cover	1
6	SYE610	Dust Cover Ass'y (SG-3800P)	1
	SYE464	Dust Cover Ass'y (SG-3800C)	1
7	SYL6-1	Foot	2
8	SYP454	Escutcheon Ass'y	1
8-1	(SGW5540)	Front Panel	(1)
8-2	(SGE1088)	Transparent Cover	(1)
8-3	(SKD4720)	Dial Scale, FM	(1)
9	SGX1126	Side Cap, Left	1
10	SGX1164	Side Cap, Right	1
11	SYP456	Dial Scale Ass'y	1
11-1	(SGK654)	Meter Scale	(1)
12	SGL158	Dolby Indicator	1
13	SYE722	Cassette Lid Ass'y	1
14	SYE670	Connection Plate Ass'y	1
15	SBN934	Knob, Tuning	1
16	SBN936	Knob, Volume	1
17	SBN938	Knob, Selector	7
18	SBN394	Button, Cassette	5
19	SBC394-1	Button, Recording	1
20	SBN940	Knob, Lever	4
21	SBN940-1	Knob, Power	1
22	SBC362	Button, Reset	1
23	SDP1036	Dial Pointer Ass'y	1
24	SHG9100	Rubber, Lamp	4
25	SMQ2536	Tape Counter	1
26	SMQ2638	Counter Belt	1
27	RDD382YA	Drum, Dial	1
28	RDS4090A	Spring, Drum	1
29	RHR969ZA	Latch	7
30	SDT9358	Shaft, Tuning	1
31 ⚠	RJA10A	Power Cord	1
32 ⚠	SJF110	Fuse Holder	2
33	SJF4212	Terminal, ANT	2
34	SJF3208	Terminal, RCA	3
35	XCJS6PF6	Jack, Head Phone	1
36	RJJ87YA-C	Jack, Mic Jack	2
37	SJP2224	Plug, Phono (SG-3800P)	1
	SJP2216	Plug, Phono (SG-3800C)	1
38	SUD216	Spacer, Jack A (SG-3800)	1
39	SUD218	Spacer, Jack B Jack (SG-3800)	1
40	SJJ96	DC Out Jack	1
41	SJF4106	Terminal, Earth (SG-3800)	1
42	SHR112	Cord Clamp	1

PARTS LOCATION OF CABINET AND CHASSIS


Screws Parts No.
■ XTV3+8BFN
✱ XTW3+8T
▲ XTW3+10T
● XTW3+12TFZ
XSB4+16FVCS
XWE5x12FVC
1 (SG-3800)
6 (SG-3800P/C)
XWE5x12FVC
XSB4+16FVCS
39 (SG-3800)
5 (SG-3800)
38 (SG-3800)
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34 (SG-3800)
41 (SG-3800)
XSB4+12FVCS
1 (SG-3800P/C)
2 (SG-3800P/C)
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XTW3+15T
XTV3+10JFXR
XTW3+15T
XTV3+10JFXR
XTV3+15J
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4-1
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XSB4+12FVCS
2 (SG-3800P/C)
5 (SG-3800P/C)
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XYN3+C6S
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37 (SG-3800P/C)
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XTV3+10J
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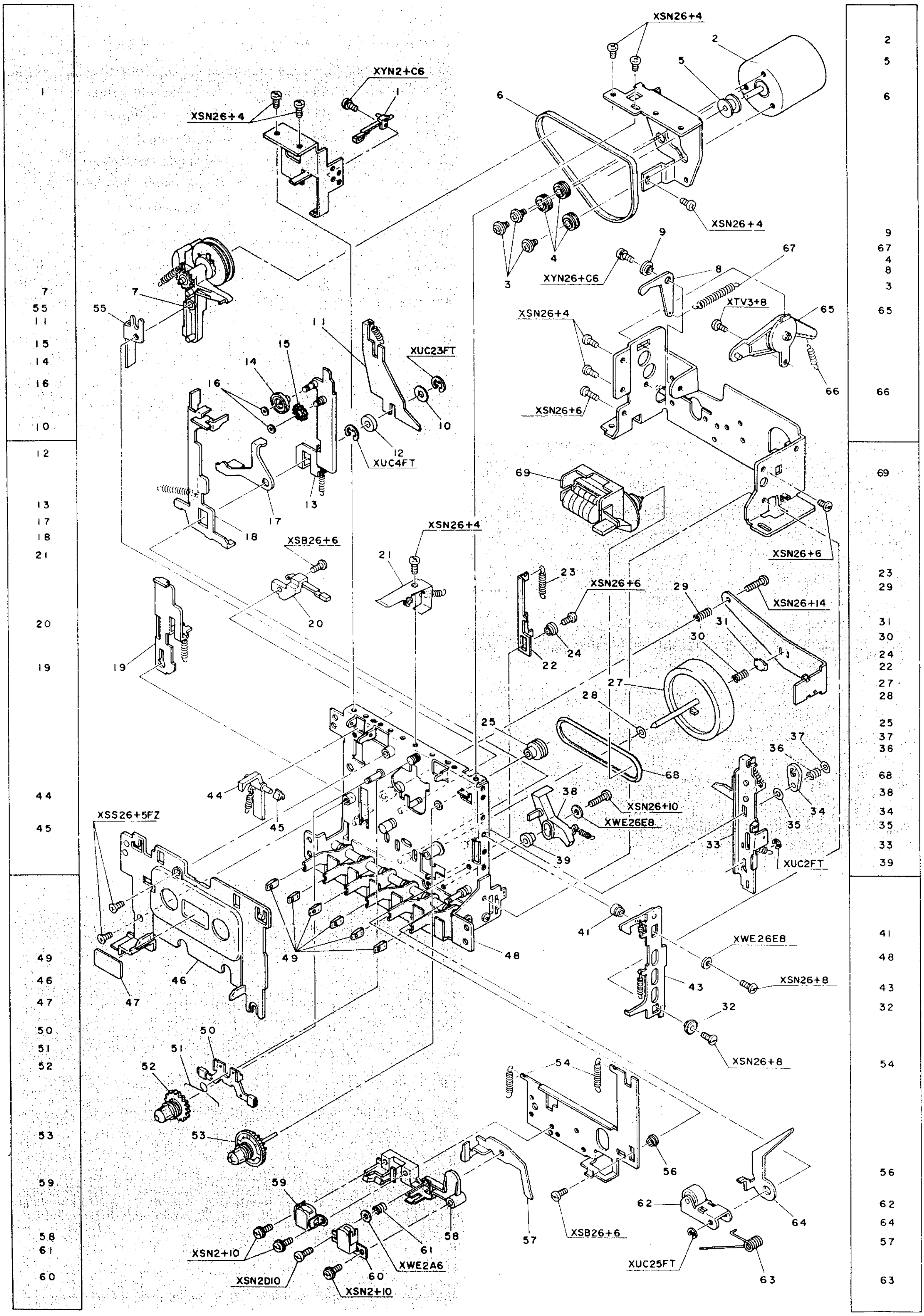
XTV3+10J

REPLACEMENT PARTS LIST OF CASSETT TAPE DECK (SJD584)

Ref. No.	Part No.	Description	Per Set (pcs.)
1	SMQ1698	Leaf Switch, Muting	1
2	MHT5NF2 × 1	Motor	1
3	SMQ1908	Spacer Screw, Motor	3
4	SMQ1834	Rubber Cushion, Motor	3
5	SMQ1662	Motor Pulley	1
6	SMQ2418	Main Belt	1
7	SMQ1930-1	RF Clutch Ass'y w/Spring	1
8	SMQ2420	REC Lever w/Spring	1
9	SMQ1426	Collar, REC Lever	1
10	SMQ2422	Collar A	1
11	SMQ2426	Operation Plate, Muting w/Spring	1
12	SMQ2424	Collar B	1
13	SMQ1922	FF Idler Arm Ass'y w/Spring	1
14	SMQ1450	Idler Wheel	1
15	SMQ1924	FF Gear	1
16	SMQ1952	Washer	2
17	SMQ1928	Rewind Arm	1
18	SMQ2428	Main Plate w/Spring	1
19	SMQ2430	REC Slide Lever w/Spring	1
20	SMQ1378	Leaf Switch, Motor ON-OFF	1
21	SMQ2432	Pack Holder Ass'y w/Spring	1
22	SMQ2434	Play Slide Lever	1
23	SMQ1950	RC Spring	1
24	SMQ1426	Collar, Play Slide Lever	1
25	SMQ2436	Drive Pulley	1
27	SMQ1942	Flywheel	1
28	SMQ1940	Nylon Washer	1
29	SMQ2440	Thrust Spring	1
30	SMQ1784	Spring, Flywheel	1
31	SMQ2538	Flysheel Pad	1
32	SMQ1426	Collar, Eject Slide Lever	1
33	SMQ2442-1	Lever Ass'y, Pause Slide w/Spring	1
34	SMQ2444	Pause Lever	1
35	SMQ2446	Collar, Pause Lever	1
36	SMQ2448	Spring, Pause Lever	1
37	SMQ2450	Nylon Washer	1
38	SMQ2452	Lever, Auto Stop Drive w/Spring	1
39	SMQ2454	Collar, Auto Stop Lever	1
41	SMQ2458	Collar, Eject Slide Lever	1
43	SMQ2462	Eject Slide Lever Ass'y w/Spring	1
44	SMQ2464	REC Safety Lever w/Spring	1
45	SMQ1706	Stopper, REC Safety Lever	1
46	SGE932	Cover	1
47	SDH200	Fluorescent Paper	1
48	SMQ2466	Push Button Frame Ass'y	1
49	SMQ2468	Spring, Push Button	6
50	SMQ2470	Brake Arm Ass'y	1
51	SMQ2472	Spring, Brake Arm	1
52	SMQ2474	Supply Reel Ass'y	1
53	SMQ2476	Take Up Reel Ass'y	1
54	SMQ2478	Spring, Head Panel	1
55	SMQ2724	Spring Plate, RF Clutch	1
56	SMQ1648	Collar, Head Panel	1
57	SMQ1900	Lever Ass'y, Auto Stop	1
58	SMQ1986	Head Base	1
59	SJH14	Erase Head	1
60	SJH30	R/P Head	1
61	SMQ678	Spring, R/P Head	1
62	SMQ2482	Pinch Roller Ass'y	1
63	SMQ2484	Spring, Pinch Roller	1
64	SMQ2486	Arm Lever	1
65	SXE152	Eject Arm Ass'y	1
66	SUS306	Spring, Eject Arm	1
68	SMQ2536	Counter	1
69	SMQ2638	Counter Belt	1

EXPLODED VIEW OF CASSETTE TAPE DECK
(SJD584)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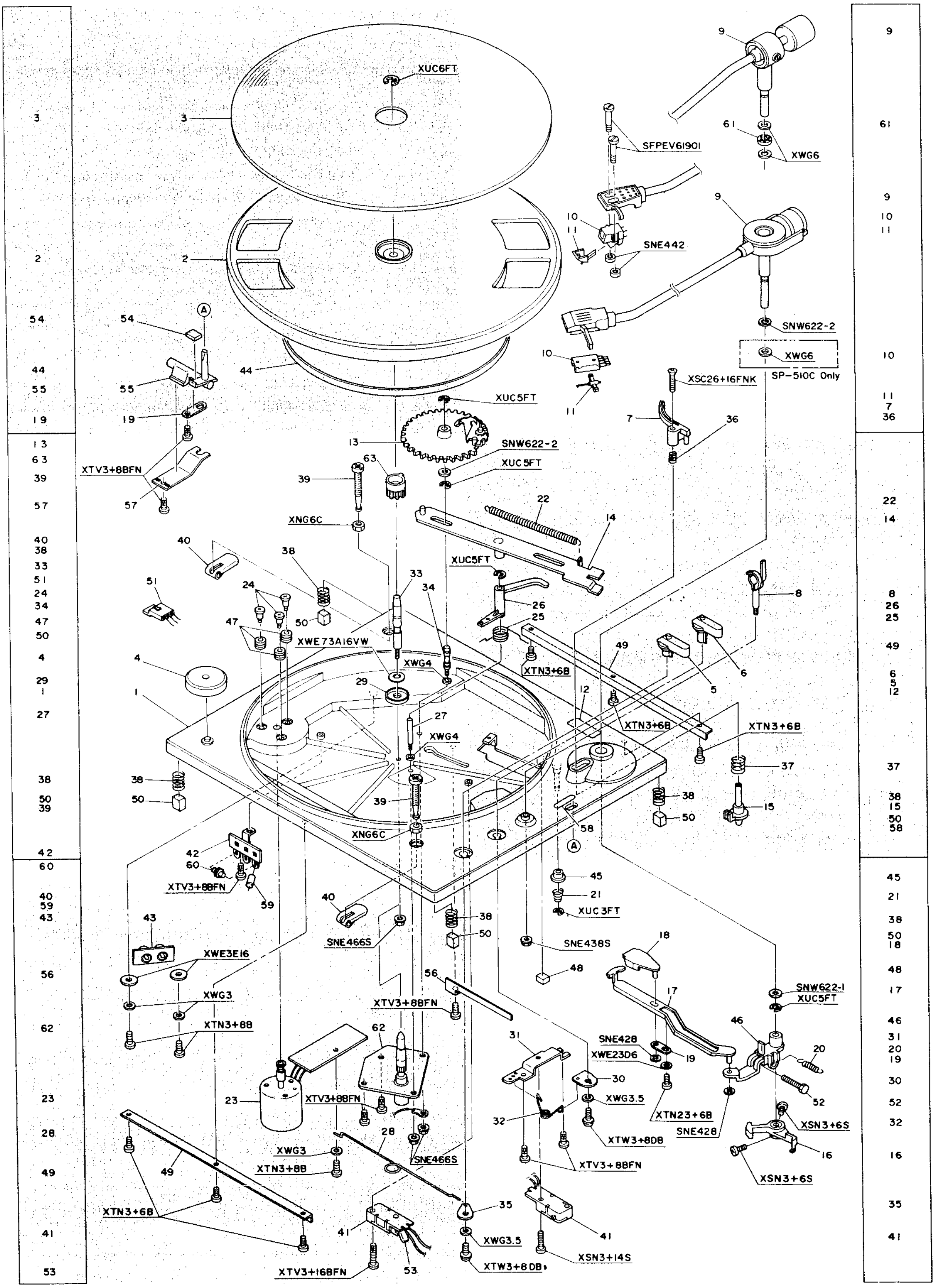
XSN2+10
XSN2D10
XWE2A6
XSN2+10

SG-3800/SG-3800P/SG-3800C

REPLACEMENT PARTS LIST OF RECORD PLAYER (SP510E)

Ref. No.	Part No.	Description	Per Set (pcs.)
		RECORD PLAYER	
1	SJY1014-4	Player Board	1
2	SJY3022	Turntable	1
3	SJY4034	Turntable Mat	1
4	SGE263	45 rpm Adapter	1
5	SJY5076-1	Knob, Cut	1
6	SJY5070-1	Knob, Selector	1
7	SJY5072-2	Lifter	1
8	SJY42	Arm Rest	1
9	EPU624SMAD	Tone Arm Assembly with Cartridge and Stylus	1
10	EPC290C	Cartridge with Stylus	1
11	EPS290SD	Stylus	1
12	SQX9848	Label, Stylus	1
13	SJY32	Gear Assembly	1
14	SJY132-2	Operating Plate Assembly	1
15	SJY5150	Shaft, Lift	1
16	SJY9016-4	Lever, Switch	1
17	SJY9042	Actuating Plate	1
18	SJY9044-1	Stop Plate, Switch	1
19	SJY9046	Bracket, Switch Control	2
20	SJY9056	Spring, Tone Arm Plate	1
21	SJY9060-1	Spring, Lift	1
22	SJY9062	Spring, Operating	1
23	MMC1170FP	Motor with Motor Pulley	1
24	SJY9632	Screw, Motor	3
25	SJY9266	Spring, Reject	1
26	SJY9268	Reject Arm	1
27	SJY9376	Shaft, Reject Arm	1
28	SJY9378	Spring, Stop	1
30	SJY9382	Lever, Selector Switch	1
31	SJY9418	Bracket, Switch	1
32	SJY9420-1	Spring, Switch	1
34	SJY9392	Shaft, Gear	1
35	SJY9394	Lever, Cut	1
36	SJY9396	Spring, Lift A	1
37	SJY9560	Spring. Lift B	1
38	SJY9404	Spring, Player Board	4
39	SFXG411-1	Transit Screw	2
40	SFUP411-6	Retaining Clip	2
41	AM4700	Micro Switch	2
42	SJR204	Terminal 2P	1
44	SFGB321-1	Turntable Belt	1
45	SFUM623-2	Spacer	1
46	SFUM623-4E	Lever, Tone Arm Plate	1
47	SHG9092	Rubber A	3
48	SHG916	Rubber B	1
49	SUW928-1	Bracket	2
50	SHR6042	Cushion	4
52	VF3B20S	Screw, Tone Arm Plate	1
53	ECQG1H103MZ	Capacitor	1
54	SHG638	Felt A, Cueing	1
55	SJY9544	Cueing Lever	1
56	SJY9072	Stop Plate Stopper	1
57	SJY9546-1	Spring, Cueing	1
58	SQX9422	Label, Cueing	1
61	SJY9630	Support, Turntable	1
62	SJY184	Turntable Shaft Assembly	1
63	SJY9118-1	Gear, Turntable	1

EXPLODED VIEW OF RECORD PLAYER
(SP510E)



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XUC6FT
SFPEV61901
XWG6
SNE442
SNW622-2
XWG6
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XUC5FT
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XUC5FT
XWE73A16VW
XWG4
XTN3+6B
XTN3+6B
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XWG4
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XTN3+8B
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XWG3
XTN3+8B
SNE466S
XSN3+6S
XTN3+6B
XWG3.5
XTW3+8DB
XSN3+14S
XTV3+16BFN
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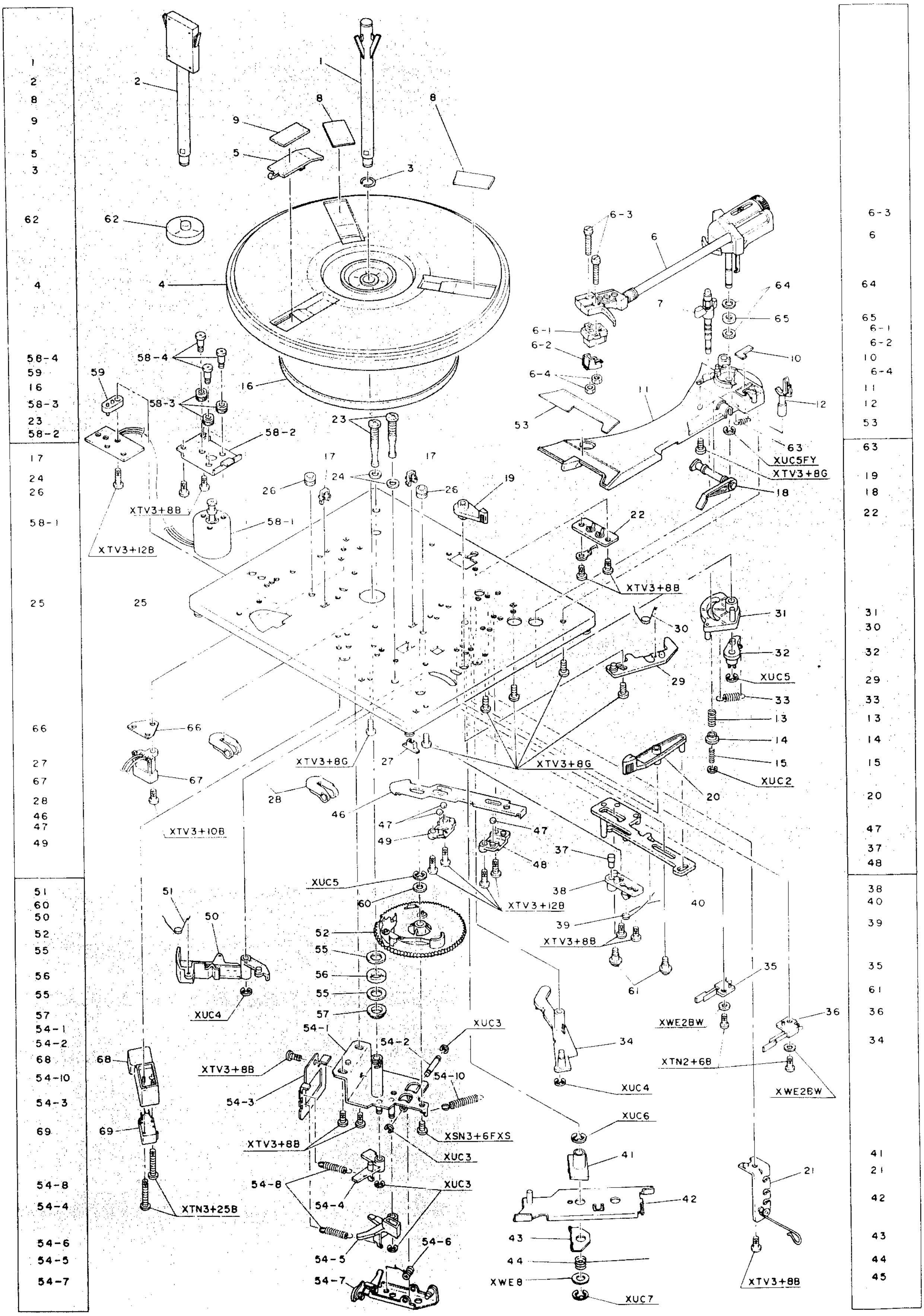
EXPLODED VIEW OF RECORD CHANGER(SP-920EMA)

Ref. No.	Part No.	Description	Per Set (pcs.)
1	SFVS910-1Z	Multiple-Play Spindle	1
2	SH45A1	45 r.p.m. Multiple-Play Spindle	1
3	SFXT920A01	Stopper Ring	1
4	SFTE920A01	Turntable Platter	1
5	SFTC920A01	Turntable Cap	1
6	EPU-60SMAD	Pickup Arm Assembly	1
6-1	(EPC74SMBD)	Cartridge with Stylus	(1)
6-2	EPS29STSD	Stylus	(1)
6-3	SFPAK6000	Screw	(2)
6-4	SFPEN3302	Washer	(2)
7	SFKR920A01E	Lift Assembly	1
8	SFTK920A01	Ornament, Turntable	2
9	SFTK920A02	Ornament, Turntable Open	1
10	SFNP920A01	Ornament, Anti-Skating	1
11	SFKP920A01	Arm Base	1
12	SFKU920A01E	Arm Rest Assembly	1
13	SFQA920A01	Spring	1
14	SFUM920A13	Collar	1
15	SFQA920A02	Spring	1
16	SFGB321-1	Belt	1
17	SFUM920A14	Clamper	2
18	SFKT920A03	Cueing Lever	1
19	SFKT920A02	Record Size Select Lever	1
20	SFKT920A01	Start Lever	1
21	SFUP920A07E	Protector B Assembly	1
22	SFDJ920A01	Pin Jack Receptacle	1
23	SFXG411-1	Transit Screw	2
24	QBJ3309	Washer	2
25	SFBP920A01A	Main Plate Assembly	1
26	SFGZ920A01	Rubber C	2
27	SFGH920A01	Rubber A	1
28	SFUP411-6	Retaining Clip	2
29	SFUM920A06	Size Select Rod	1
30	SFQS920A04	Spring	1
31	SFUM920A04	P.U. Control Lever A	1
32	SFUM920A05	P.U. Control Lever B	1
33	SFQH920A03	Spring	1
34	SFUM920A08	Index Lever	1
35	SFDSBSW31PL	Switch B	1
36	SFDSBSW81	Switch A	1
37	SFGH920A02	Rubber B	1
38	SFUM920A11	Bumper	1
39	SFQS920A01	Spring	1
40	SFUM920A01	Start Rod	1
41	SFUM920A10	Operating Plate Guide	1
42	SFUB920A01E	Operating Plate	1
43	SFUP920A04	Hold Down Plate	1
44	SFQS920A05	Spring	1
46	SFUC920A01	Actuating Slide	1
47	QDK1006	Steel Ball	3

Ref. No.	Part No.	Description	Per Set (pcs.)
48	SFUM920A18	Guide S	1
49	SFUM920A17	Guide W	1
50	SFUM920A03	Switch Lever	1
51	SFQS920A02	Spring	1
52	SFUG920A01A	Main Gear Assembly	1
53	SFKK920A01	Ornament, Main Plate	1
54	SFUP920A01A	Base Plate Complete Assembly	1
55	SFXW920A03	Turntable Washer	2
56	SFUP920A09E	Ball Race	1
57	SFGC920A02	Turntable Support Rubber	1
58	SFMF920A01E	Motor Assembly	1
58-1	MMC6P2RNA	Motor	(1)
58-2	SFMF920A01	Motor Plate	(1)
58-3	SFGC920A01	Cushion Rubber	(3)
58-4	SFXG920A01	Screw	(3)
59	SFUM920A12	PWB Spacer	1
60	SFXW920A01	Washer	1
61	SFXG910-06	Screw	2
62	SFVA920A01	Manual Spindle	1
63	SFQH920A05	Spring	1
64	SFXW890B01	Washer	2
65	SFUP890B10E	Washer	1

REPLACEMENT PARTS LIST OF RECORD CHANGER(SP-920EMA)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XTV3+8B
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XWE2BW
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XUC6
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XTV3+8B
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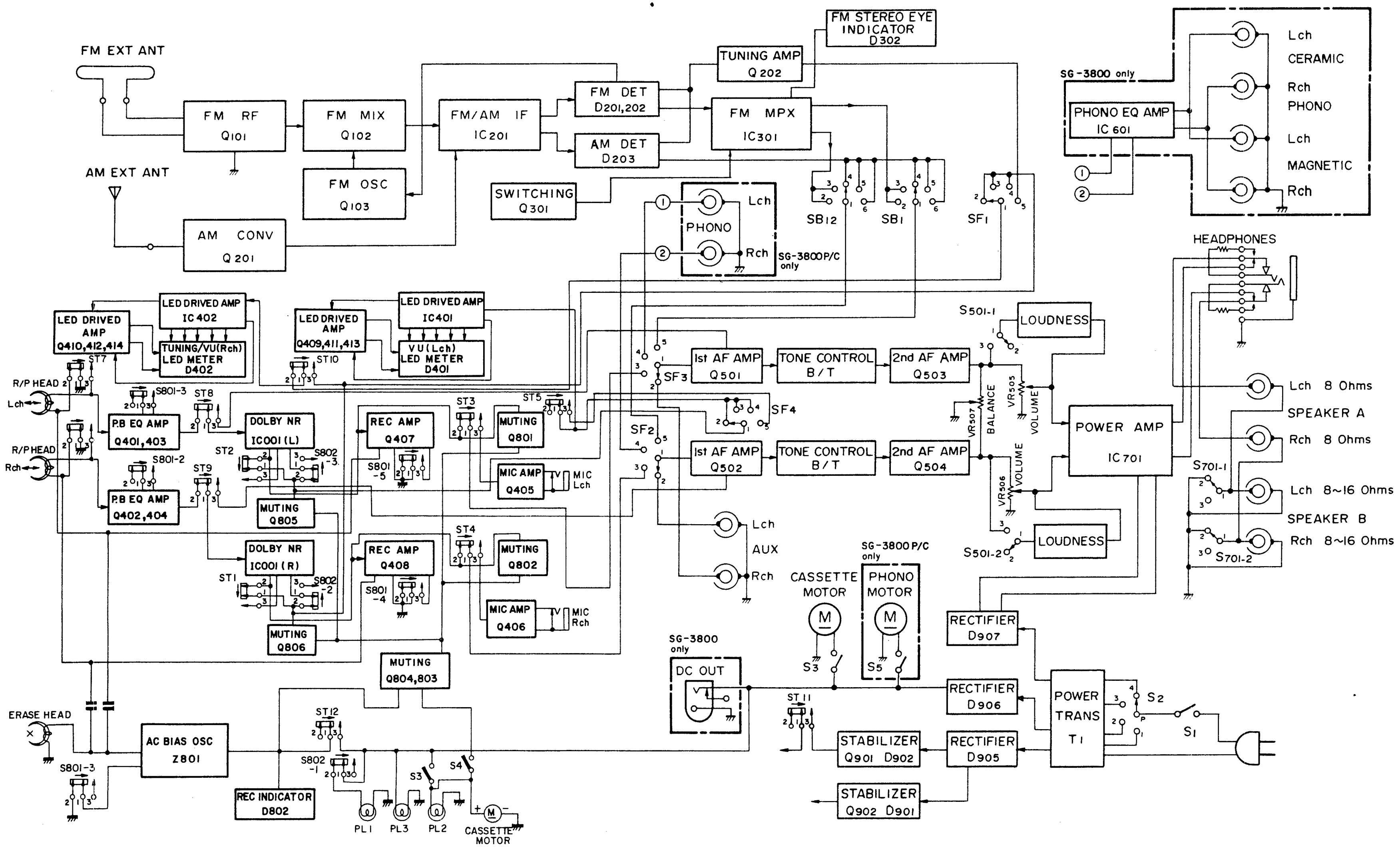
BLOCK DIAGRAM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TUNING AMP Q202
FM STEREO EYE INDICATOR D302
FM MPX IC301
SWITCHING Q301
SG-3800 only
PHONO EQ AMP IC601
Lch
CERAMIC
Rch
PHONO
Lch
MAGNETIC
Rch
①
②
PHONO
Lch
Rch
SG-3800P/C only
SB12
SB1
SF1
SF2
SF3
SF4
HEADPHONES
S501-1
S501-2
LOUDNESS
LOUDNESS
1st AF AMP Q501
1st AF AMP Q502
TONE CONTROL B/T
TONE CONTROL B/T
2nd AF AMP Q503
2nd AF AMP Q504
VR505 VOLUME
VR506 VOLUME
VR507 BALANCE
POWER AMP IC701
S701-1
S701-2
Lch 8 Ohms
SPEAKER A
Rch 8 Ohms
Lch 8~16 Ohms
SPEAKER B
Rch 8~16 Ohms
Lch
AUX
Rch
LED DRIVED AMP Q410,412,414
LED DRIVED AMP IC402
TUNING/VU(Rch) LED METER D402
LED DRIVED AMP Q409,411,413
LED DRIVED AMP IC401
VU(Lch) LED METER D401
ST7
ST10
R/P HEAD
Lch
R/P HEAD
Rch
S801-3
ST8
PB EQ AMP Q401,403
S801-2
ST9
PB EQ AMP Q402,404
DOLBY NR IC001(L)
ST2
S802 -3
DOLBY NR IC001(R)
ST1
S802 -2
MUTING Q805
MUTING Q806
REC AMP Q407
S801 -5
REC AMP Q408
S801 -4
ST3
ST4
ST5
MUTING Q801
MUTING Q802
MIC AMP Q405
MIC Lch
MIC AMP Q406
MIC Rch
MUTING Q804,803
ERASE HEAD
AC BIAS OSC Z801
S801-3
ST12
S802 -1
REC INDICATOR D802
PL1
PL3
PL2
S3
S4
CASSETTE MOTOR
CASSETTE MOTOR
S3
SG-3800P/C only
PHONO MOTOR
S5
SG-3800 only
DC OUT
ST11
RECTIFIER D907
RECTIFIER D906
RECTIFIER D905
STABILIZER Q901 D902
STABILIZER Q902 D901
POWER TRANS T1
S2
S1

BLOCK DIAGRAM
SG-3800,3800P/C

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